



CONTRACT

**Timberwood and Gleason Estates Street Rehabilitation and
Adjoining Neighborhoods within the boundaries of Elm Creek Blvd
& Pineview Lane N, and 93RD Ave N & 89TH Ave N, Arbor Lakes Mill
and Overlay, Jefferson Highway Mill and Overlay, and Fire Station
#4 Parking Lot**

**PROJECT NO. 2016-06
CITY OF MAPLE GROVE**

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SPECIFICATIONS FOR

**Timberwood and Gleason Estates Street Rehabilitation and
Adjoining Neighborhoods within the boundaries of Elm Creek Blvd
& Pineview Lane N, and 93RD Ave N & 89TH Ave N, Arbor Lakes Mill
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PROJECT PERSONNEL ASSIGNMENT FORM

I hereby certify that these plans and Specifications were prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Jupe G. Hale

Date 03/25/2016 Lic. No. 42064

ADVERTISEMENT FOR BIDS

PROJECT NO. 2016-06

**Timberwood Street Rehabilitation and Adjoining Neighborhoods within the
Boundaries of Pineview Lane N & Elm Creek Blvd N and 93RD Ave N & 89TH Ave N, Arbor Lakes Mill and
Overlay, Jefferson Highway Mill and Overlay, Fire Station #4 Parking Lot**

MAPLE GROVE, MINNESOTA

BIDS CLOSE: 11:00 A.M., April 29, 2016

TELEPHONE: 763-494-6350

Sealed bids will be received by the City of Maple Grove, Minnesota in the City Hall at 12800 Arbor Lakes Parkway until **11:00 A.M. on April 29, 2016**, at which place and time they will be publicly opened by two or more persons who have been designated by the City to open bids. Bids are for the furnishing of labor and materials and all else necessary for improvements, consisting primarily of the following estimated quantities:

CITY PROJECT NO. 2016-01

26,000 SY	Mill and Remove 1.5" or 2" of Existing Bituminous Street
19,000 SY	Remove Bituminous Pavement
11,000 CY	Common Excavation
19,000 SY	2" or 3" Bituminous Non-wear Course
44,000 SY	1½" or 2" Bituminous Wear Course
18,000 LF	Remove and Replace Concrete Curb & Gutter
19,000 TON	Aggregate Base, Class 5
16,000 LF	Pavement Striping - Epoxy
1,500 CY	3" Minus Stabilization Aggregate
18,000 SY	6" Topsoil and Sod

Plans and specifications, proposal forms and contract documents may be seen at the office of the City Clerk, Maple Grove, Minnesota.

Each bid shall be accompanied by a bidder's bond naming the City of Maple Grove as obligee, certified check payable to the Clerk of the City of Maple Grove or a cash deposit equal to at least five percent (5%) of the amount of the bid, which shall be forfeited to the City in the event that the bidder fails to enter into a contract.

The City Council reserves the right to retain the deposits of the three lowest bidders for a period not to exceed thirty (30) days after the date and time set for the opening of bids. No bids may be withdrawn for a period of thirty (30) days after the date and time set for the opening of bids.

Payment for the work will be by cash or check.

Contractors, subcontractors or material suppliers desiring a copy of the plans and specifications and proposal forms may obtain them at The City of Maple Grove Government Center, Minnesota, or the City's website at <https://egram.maplegrovern.gov>.

All bidders for this contract, including subcontractors and suppliers which have 40 or more full-time employees, shall submit a certified copy of their current Affirmative Action Declaration with their bid.

The Council reserves the right to reject any and all bids, to waive irregularities and informalities therein and further reserves the right to award the contract to the best interests of the City.

Heidi Nelson, City Clerk
City of Maple Grove, Minnesota

Published in Finance and Commerce: April 6 and 13, 2016

Published in the Osseo-Maple Grove Press: April 7 and 14, 2016

INFORMATION FOR BIDDERS

1. BID PROCEDURE:

Each Contractor has been furnished a specification, and one (1) extra proposal form. The Contractor shall submit a copy of his bid on the separate proposal form and not in the specification book. A sealed envelope shall contain the proposal.

2. PLAN PURCHASE:

Individual drawings and sections of the specifications may be purchased at a rate of three dollars and fifty cents (\$3.50) per sheet of drawings and twenty-five cents (\$0.25) per sheet of specifications for which no refund shall be made.

- A. Prime Contractor: A Prime Contractor may obtain a set of plans and specifications as stipulated in the Advertisement for Bids. The City of Maple Grove Standard Specifications for Utility and Street Construction 2015, and its amendments, is available for purchase at the Maple Grove Government Center.

A Prime Contractor is defined as a general contractor who submits a bona fide bid or an electrical or mechanical subcontractor who provided a complete sub-bid to more than one general contractor. A bid for equipment or material only is not considered a complete sub-bid.

Prime Contractors may obtain more than one set of plans and specifications if necessary, however no refund will be given for these additional sets.

- B. Material Supplier or Subcontractor: Any material supplier or subcontractor may obtain one set of plans and specifications as stipulated in the Advertisement for Bids.

3. QUALIFICATION OF BIDDER:

The Owner may request the bidder to submit information necessary to satisfy the owner that the bidder is adequately prepared to fulfill the contract. Such information may include past performance records, list of available personnel, plan, equipment, financial statement or any other pertinent information.

4. RESPONSIBLE CONTRACTOR REQUIREMENTS:

In addition to conforming to all responsibility requirements in the bid documents, a contractor responding to a bid solicitation must also meet the criteria in Minnesota Statutes, section 16C.285, subdivision 3 to be awarded this contract as the lowest responsible bidder. Any prime contractor or subcontractor that does not meet the minimum criteria of Minn. Stat. 16C.285, subd. 3 or fails to verify that it meets those criteria is not a responsible contractor/bidder and is not eligible to be awarded a construction contract for the project or to perform work on the project.

The contractor shall submit with its bid to the City a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in Minn. Stat. 16C.285, subd. 3. A contractor shall include in its verification of compliance a list of all of its first-tier subcontractors that it intends to retain for work on the project. If a prime contractor or any subcontractor retains additional subcontractors after submitting its verification of compliance, the prime contractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and submit the verification to the City within 14 days of retaining the additional subcontractors. A false statement on a verification of compliance shall render the prime contractor or subcontractor ineligible to be awarded the construction contract and may result in termination of the contract without liability to the City. A prime contractor shall submit to the City upon request copies of the signed verifications of compliance from all subcontractors.

2016-06 PROPOSAL FORM

NO.	ITEM DESCRIPTION	UNITS	QTY	UNIT COST	AMOUNT
1	MOBILIZATION	LUMP SUM	1		
2	INCENTIVE PHASE 1 TIMBERWOOD/GLEASON ESTATES ONLY	LUMP SUM	1	\$20,000.00	\$ 20,000.00
3	INCENTIVE PHASE 2 TIMBERWOOD/GLEASON ESTATES ONLY	LUMP SUM	1	\$20,000.00	\$ 20,000.00
4	INCENTIVE BONUS FOR ARBOR LAKES PKWY, JEFFERSON HWY, FIRE STATION #4	LUMP SUM	1	\$20,000.00	\$ 20,000.00
5	COMMON LABORER	HR	12		
6	EQUIPMENT RENTAL	HR	12		
7	REMOVE CURB & GUTTER	LIN FT	17685		
8	REMOVE CONCRETE WALK	SQ FT	355		
9	REMOVE BITUMINOUS PAVEMENT	SQ YD	19428		
10	REMOVE CONCRETE DRIVEWAY PAVEMENT	SQ YD	2413		
11	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	745		
12	REMOVE MANHOLE OR CATCH BASIN	EACH	1		
13	REMOVE CASTING ASSEMBLY	EACH	9		
14	SAWING CONCRETE PAVEMENT (FULL DEPTH)	LIN FT	2335		
15	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	LIN FT	4344		
16	SALVAGE CASTING ASSEMBLY	EACH	96		
17	SALVAGE BRICK/STONE PAVERS	SQ FT	72		
18	SALVAGE STREET SIGN	EACH	2		
19	SALVAGE AND INSTALL MAILBOX AND SUPPORT	EACH	157		
20	COMMON EXCAVATION	CUBIC YD	11414		
21	SUBGRADE EXCAVATION	CUBIC YD	1365		
22	SELECT GRANULAR BORROW	CUBIC YD	500		
23	GEOTEXTILE FABRIC TYPE V	SQ YD	1000		
24	3" MINUS STABILIZATION AGGREGATE	CUBIC YD	1365		
25	STREET SWEEPER (WITH PICKUP BROOM)	HR	85		
26	AGGREGATE BASE, CLASS 5 OR CLASS 7 (CV)	TON	19334		
27	MILL BITUMINOUS SURFACE (1.5")	SQ YD	10885		
28	MILL BITUMINOUS SURFACE (2")	SQ YD	15920		
29	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340B) - 1.5" THICK	SQ YD	26106		
30	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA340B) - 2" THICK	SQ YD	19108		
31	TYPE SP 12.5 NON WEARING COURSE MIXTURE (SPNWB330B) - 2" THICK	SQ YD	16271		
32	TYPE SP 12.5 NON WEARING COURSE MIXTURE (SPNWB330B) - 3" THICK	SQ YD	3188		
33	TYPE SP 9.5 WEARING COURSE MIXTURE (SPWEA240B) DRIVEWAYS	SQ YD	158		
34	BITUMINOUS MATERIAL FOR TACK COAT	GAL	2448		
35	4" PERF PE PIPE DRAIN W/SOCK	LIN FT	500		
36	IRRIGATION SYSTEM REPAIRS	EACH	51		
37	INSTALL 72" CATCH BASIN W/ 4' SUMP - 6'-10' BUILD	EACH	1		
38	GROUT CATCH BASIN OR MANHOLE	EACH	2		
39	STORM SEWER BAFFLE DEVICE - DISSIPATOR; 30" PIPE	EACH	1		
40	STORM SEWER BAFFLE DEVICE - SKIMMER; 30" PIPE	EACH	1		
41	CONNECT TO EXISTING STORM-CORE DRILL	EACH	10		
42	INSTALL CASTING ASSEMBLY	EACH	96		
43	CASTING ASSEMBLY (R-1642)	EACH	4		
44	CASTING ASSEMBLY (R-3067 V)	EACH	4		
45	CASTING ASSEMBLY (R-3250 A)	EACH	1		
46	ADJUST GATE VALVE BOX	EACH	32		
47	ADJUST CURB STOP BOX	EACH	2		
48	REPAIR / REPLACE GATE VALVE BOX	EACH	5		

NO.	ITEM DESCRIPTION	UNITS	QTY	UNIT COST	AMOUNT
49	5" CONCRETE WALK	SQ FT	355		
50	CONCRETE CURB & GUTTER DESIGN B618	LIN FT	1604		
51	PEDESTRIAN CURB RAMP WITH TRUNCATED DOMES	EACH	1		
52	CONCRETE CURB & GUTTER DESIGN B618 - HANDFORM	LIN FT	710		
53	CONCRETE CURB & GUTTER DESIGN SURMOUNTABLE - HANDFORM	LIN FT	200		
54	CONCRETE CURB & GUTTER DESIGN SURMOUNTABLE	LIN FT	15881		
55	6" CONCRETE DRIVEWAY PAVEMENT	SQ YD	350		
56	6" CONCRETE DRIVEWAY APRON WITH 6" CLASS 5 AGGREGATE BASE	SQ YD	6904		
57	6" CONCRETE DRIVEWAY APRON WITH 6" CLASS 5 AGGREGATE BASE (HE)	SQ YD	100		
58	LANDSCAPE RESTORATION	EACH	31		
59	TEMPORARY MAILBOX	EACH	350		
60	INSTALL BRICK/STONE PAVERS	SQ FT	72		
61	INSTALL ROADWAY SIGNAGE	EACH	2		
62	CROSSWALK MARKING - EPOXY	SQ FT	1095		
63	4" SOLID LINE WHITE - EPOXY	LIN FT	6855		
65	24" SOLID LINE YELLOW - EPOXY	LIN FT	215		
66	4" SOLID LINE YELLOW - EPOXY	LIN FT	7495		
67	4" BROKEN LINE WHITE - EPOXY	LIN FT	2305		
68	PAVT MSSG (LT ARROW) EPOXY	EACH	11		
69	PAVT MSSG (RT ARROW) EPOXY	EACH	6		
70	PAVT MSSG (THRU ARROW) EPOXY)	EACH	1		
71	PAVT MSSG (LT-THRU ARROW) EPOXY)	EACH	3		
72	HANDICAPED PAVT MARKING EPOXY	EACH	2		
73	TRAFFIC CONTROL	LUMP SUM	1		
74	8" FILTER LOG TYPE COMPOST BIOROLL	LIN FT	200		
75	INLET PROTECTION	EACH	91		
76	TOPSOIL BORROW	CUBIC YD	2839		
77	SODDING, TYPE LAWN W/ FERTILIZER	SQ YD	17201		
78	WATER FOR TURF ESTABLISHMENT	1,000 GAL	1050		
79	PET CONTAINMENT SYSTEM REPAIRS	EACH	16		
				TOTAL	\$

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SPECIFICATIONS

Timberwood and Gleason Estates Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Elm Creek Blvd & Pineview Lane N, and 93RD Ave N & 89TH Ave N, Arbor Lakes Mill and Overlay, Jefferson Highway Mill and Overlay, and Fire Station #4 Parking Lot

PROJECT NO. 2016-01

1. PROJECT DESCRIPTION

This project proposes the reconstruction of the following areas:

- Timberwood and Gleason Estates Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview LN N & Elm Creek Blvd, and 93RD Ave N & 89TH Ave N
- Arbor Lakes Mill and Overlay
- Jefferson Highway Mill and Overlay
- Fire Station #4.

Included are the removal/repair and reinstallation of manholes, construction and repair of storm sewers, removal and replacement of defective concrete curb, installation of subdrains at existing catch basin locations, placement of 3 ½" of bituminous pavement in two lifts, mill and overlay, and restoration. Included in the bid shall be all other work necessary to complete this project as indicated on the plans.

2. SPECIFICATIONS WHICH APPLY

The performance of the work, the material requirements, the method of measurements, and the basis of payment for the work under this contract shall be governed by the City of Maple Grove Conditions of the Contract, the City of Maple Grove Standard Specifications for Utility and Street Construction 2016, and any addenda or revisions to that document (available on the City of Maple Grove website: <http://www.maplegrovern.gov/departments/engineering>), the 2016 edition of the Minnesota Department of Transportation Standard Specifications for Construction (MNDOT), as amended by any Supplemental Specifications, together with all requirements of the Minnesota Department of Health and Industrial Commission, except as altered or modified by these Special Provisions. Where there is a discrepancy between the Standard Specifications of the City of Maple Grove and those of the Minnesota Department of Transportation, the Standard Specifications of the City of Maple Grove shall apply. The word "Owner" shall be substituted for the word "State" where appropriate. The word "Engineer" is understood to refer to the Engineer for the Owner.

3. PROJECT SCHEDULE, LIQUIDATED DAMAGES AND INCENTIVES

- A. In all areas of street construction, construction activities shall be coordinated **by the Contractor** so that residents, mail carriers, buses, emergency vehicles, and all other vehicles have access at all times **and** also to keep the flow of the construction moving forward at all times.

SPECIFICATIONS

Wellington Crest Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview Lane N & Forestview Lane N, and 93RD Ave N & 89TH Ave N

- B. **Scheduling of the work and maintenance of local traffic is of critical concern to the Owner.** For this reason, construction in the Timberwood and Gleason Estates areas shall be divided into and referred to by **two** phases as shown on the plans and as follows:
1. Rice Lake Meadows, Timberwood, & Elm Creek Twinhome (W of Sycamore LN to Elm Creek Blvd).
 2. Gleason Estates, Pine Grove Estates, Lynde First (Sycamore to Pineview LN)
- C. It is anticipated that the utility work and street construction will be occurring concurrently within each phase.
- D. For purposes of this project, the following definitions apply:
- Substantial Completion:* All work except final bituminous wear course and punch list items.
- Final Completion:* Final bituminous wear course in place. Punch list items complete to the satisfaction of the Engineer.
- E. The Contractor shall be given 30 working days for substantial completion of each individual phase, once construction has begun in that phase. Working days are as defined in MnDOT Standard Specification 1806.3. Upon written request and approval of the Engineer, the Contractor shall be given the option to complete multiple phases simultaneously. However, once work begins on any given phase, that phase must be substantially completed within 30 working days. Should the Contractor fail to meet the interim completion date for any stage, they will **be subject to liquidated damages of \$2,000.00 per calendar day**.
- F. The contract includes incentives for interim substantial completion and final completion (as indicated on the bid form) by the following calendar dates:

Phase 1 Substantial Completion: July 12, 2016

Phase 2 Substantial Completion: August 5, 2016

Final Completion of Jefferson Highway, Arbor Lakes Parkway,
Fire Station #4: September 2, 2016

Completion deadlines for incentives are based on a start date of June 1, 2016. Unless Notice to Proceed was issued after June 1, 2016, there will be no adjustment to the incentive completion dates under any circumstances. Contractor will have the opportunity to work on multiple phases simultaneously if requested in writing and approved by the Engineer. Contractor may also request an extension to standard working hours. This request must be specific as to the type of work and the duration, and requires a two-week minimum lead time in order to secure approval from City Council.

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Wellington Crest Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview Lane N & Forestview Lane N, and 93RD Ave N & 89TH Ave N

- G. Once a driveway has been removed from service, the new driveway must be in place and accessible for residential traffic within 7 calendar days. The penalty for each day an individual driveway remains inaccessible beyond 7 calendar days will result in \$500 deduction from the incentive for substantial completion for that phase.
- H. Upon approval of the Engineer, sod placement may be exempted from substantial completion of a phase, should conditions not be favorable for sod establishment. Once conditions become favorable, Contractor shall be granted 7 calendar days to complete sod installation once conditions are deemed favorable by the Engineer. Substantial completion incentive will not be paid until sod installation is complete for that phase prior to the sod installation deadline.
- I. The final bituminous wear course shall not be placed until all sodding is complete in all phases. Once final bituminous wear course paving commences, Contractor shall have 14 calendar days to complete all paving activities.
- J. Once milling operations on Arbor Lakes Parkway and Jefferson Highway begin, the final paving must be completed within 7 calendar days. **If final paving is not completed in 7 calendar days, a penalty of \$500 per day per project, will be as assessed against the incentive until the work is completed.**
- K. All work shall be completed within 90 working days as defined in MnDOT Standard Specification 1806.3, or by October 15, 2016, whichever is earlier. Should the project not be awarded at the May 4, 2016 City Council meeting, the contract completion date shall be revised accordingly. Time being an essential element of the Contract, it is agreed that the City will be entitled to damages for failure on the part of the Contractor to complete the work within the prescribed final completion dates. **Liquidated damages in the amount of \$2,000.00 per calendar day shall apply.**

Should the Contractor neglect, refuse, or fail to complete the project on or before the specified final completion date, liquidated damage in the amounts as stated above shall be deducted from any monies due to the Contractor or shall be paid to the City not as a penalty but as liquidated damages for each and every calendar day that the Contractor shall be in default after the specified dates. The maximum penalty shall be \$2,000.00 per calendar day for each day the work remains uncompleted after expiration of the contract completion. The City reserves the right to assess liquidated damages without the burden of proving actual damages sustained.

4. AWARD OF CONTRACT

The Owner reserves the right to retain the three (3) lowest bids for a period of 30 days after the bid date before making award. As part of the award process, the City will assess each bidder's proposed foreman, subcontractors and prior project history submitted as part of their bid. The City reserves the right to reject bids as not being

SPECIFICATIONS

Wellington Crest Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview Lane N & Forestview Lane N, and 93RD Ave N & 89TH Ave N

responsive should these qualifications and past performance be deemed inadequate to prosecute the work in the contract. Award of the project is expected to take place at the May 4, 2016 City Council meeting. The work shall start as soon as the contract documents have been executed by all parties and Certificates of Insurance have been approved by the City Attorney.

5. EASEMENTS AND RIGHT-OF-WAY

The City of Maple Grove will obtain all required right-of-way and easements necessary to construct the project. Any delay in construction because of a delay in providing right-of-way or easements shall be deemed reason for extension of the Contract completion date, but shall not be deemed reason for extension of the incentive dates nor for increase in the Contract unit prices.

6. PERMITS

It shall be the Contractor's responsibility to obtain the necessary work permits and to provide all necessary bonds and deposits therefore at no expense to the City, except as provided below. The Contractor shall be responsible for determining whether or not permits are necessary for the use of roads leading to the project and obtaining the permits required.

The Contractor shall be responsible for administration of the MPCA construction activity permit, if needed. The Contractor shall perform all the site inspections, maintain all records and do all that is required of these permits. This work is incidental to the cost of the project.

7. WORKING HOURS

Work under this contract shall be accomplished by complying with all City ordinances in constructing this project. Equipment and machinery **cannot be started prior to 7:00 A.M.**, and all machinery and work shall cease at 7:00 P.M. The Contractor can work Saturdays 8:00 A.M. to 5:00 P.M. The Contractor will not be allowed to work Sundays or during Holidays, unless pre-approved by the City Council.

8. PRECONSTRUCTION CONFERENCE

Prior to the start of the work, there will be a preconstruction conference arranged by the City of Maple Grove. Representatives of the City, the Contractor and the Contractor's subcontractors, utility companies and other agencies affected by the project will be notified to be present at this meeting.

At, or before, the preconstruction conference the Contractor shall furnish a traffic control and project staging plan to the Engineer for approval. Known requirements of the traffic control plan include:

- All required signage per the MN MUTCD, field manual, and any additional applicable standards
- Two-way traffic must be maintained at all times

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Wellington Crest Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview Lane N & Forestview Lane N, and 93RD Ave N & 89TH Ave N

- All residents shall maintain access through closure
- Minimum drive lane is ten (10) feet in width
- Pedestrian detour signage as necessary
- Advanced warning signs a minimum of ten (10) days prior to closure to advise the traveling public of the construction dates (see Special Provisions - Street)

A construction schedule shall be submitted at, or before, the preconstruction meeting to obtain an orderly project that maximizes residents' access with minimal inconvenience. After review, if the Contractor's constructing schedule is approved, the Contractor will be informed of its approval and any modifications. The construction schedule shall be approved by the Engineer prior to beginning any work. The final agreed upon schedule from the preconstruction meeting will become the guide for the project activities. **The Contractor shall deliver notices to the residents concerning the various construction activities that will take place, therefore this schedule must be followed as closely as possible.**

The City and the Contractor, including active subcontractors, shall hold weekly meetings to discuss any adjustments to the work schedule, people or equipment to ensure the efficient completion of the project. At such meeting **the Contractor shall provide the City with an updated written schedule for completion of any active phase, as well as a detailed written schedule of the planned activities for the upcoming two weeks. Failure to meet weekly schedule requirements will result in a deduction of \$500, for each occurrence, from the substantial completion incentive for that phase or from the final completion incentive, as applicable.**

9. CITY UTILITY INSPECTION

The City of Maple Grove has inspected its underground utilities prior to the commencement of this work, and will repair any deficiencies prior to the Contractor commencing work on the area. Any deficiencies found will be repaired by the City. The Contractor shall be prepared to work closely with City staff to provide access to the site and subject utility facilities. The work to coordinate schedule and any necessary activities will be incidental.

The Contractor shall notify the City's project inspector of any problems found with any City-owned facility as soon as it is discovered.

10. PUBLIC RELATIONS

The Contractor, sub-contractors, and their employees shall adhere to the policy of maintaining good public relations for the duration of the project. The Contractor, sub-contractors, and their employees shall proceed in a courteous, safe, and efficient manner with special attention given to access, protection of personal property, and other considerations that will lessen any adverse impact of construction.

If daily or seasonal changes in weather or in other conditions that adversely affect the access of residents to this project occur, the Contractor shall immediately provide the

SPECIFICATIONS

Wellington Crest Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview Lane N & Forestview Lane N, and 93RD Ave N & 89TH Ave N

residents with assistance and start measures to remedy the problem. The Contractor shall maintain access to residents at all times. In addition, **the Contractor shall notify the residents as they are mobilizing into a different area within the project.**

11. TEMPORARY REMOVALS

The temporary removal, storage and replacement of miscellaneous items shall be performed by the Contractor, as directed by the Engineer, and they shall be considered incidental to the project as a whole with no direct payment therefore, unless specifically identified as a bid item.

12. PROJECT SITE

The Contractor shall be satisfied that the site is acceptable before work is started or brings any inadequacy to the attention of the Engineer.

The Contractor must provide all dwellings/homeowners with 24-hour written notice of any disturbances that shall affect their access or egress to their property.

The Contractor shall primarily access the Phase 1 areas by use of 91ST AVE N, Phase 2 areas by use of Hemlock Lane N, and the Phase 3 areas by use of Jonquil Lane N.

13. CONTROL OF WORK

The **Contractor shall have a Competent Individual** on the project site and **available** to the Engineer **during any activity related to the project** (per MNDOT Standard Specification 1506.2). If the Contractor does not provide for this, Maple Grove Standard Specifications, Conditions of the Contract, Section 6.d shall be enforced.

The Contractor must have the necessary equipment and operator on site for day to day operations and for any unexpected situations (i.e. skid steer/operator).

14. STREET CLEANING/STORM SEWER PROTECTION

The Contractor shall keep all existing roads clean during the course of this project. The Contractor shall scrape, clean and/or sweep the adjacent streets as directed by the Engineer with no direct compensation. The Contractor shall protect all existing storm sewer systems from construction erosion and debris at all times until project is completed.

15. WEATHER RECORD LOG

The Contractor shall maintain a 24 hour weather record per day (calendar days). **The Contractor shall give the City a copy of the weather Record Log along with his written request for monthly payment. Monthly payment will be delayed until these requirements are met.**

SPECIFICATIONS

Wellington Crest Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Pineview Lane N & Forestview Lane N, and 93RD Ave N & 89TH Ave N

16. PAYMENT FOR INCREASED OR DECREASED QUANTITIES

In Section 11.i of the Conditions of the Contract, the Owner reserves the right to an overrun/underrun of 25% before the Contractor can request additional compensation. In this contract, because of unknown conditions, items of work have been included to provide for flexibility when encountering unknowns. Therefore, there are items where no quantities may be used and other items where the quantities may be much higher or lower than that shown. There will be no change in the contract unit price for any item in this contract because of any change in the quantity used.

17. MOBILIZATION

The mobilization quantity shall not exceed 5% of the total contract cost as shown in the bid proposal. **If mobilization bid price exceeds 5% of total contract cost the Owner retains the right to reject the Contract bid.** Payment for Mobilization shall be at the contract unit price **Lump Sum**.

18. UNIT PRICES

All unit prices shall reflect the bidders' true cost per each item. Bidders shall retain all documents used in preparation of the bid until the contract is awarded, and in the case of the successful bidder, shall retain all documents used in preparation of bid until completion of Contract. Upon request of the City, Bidder or Contractor shall furnish any documentation required to substantiate the unit price bid for any item. Failure to produce such documentation in a timely manner, or failure of documentation to substantiate the unit price, will result in rejection of bid or renegotiation of unit price, as applicable.

SPECIAL PROVISIONS TO THE STANDARD STREET SPECIFICATIONS

1.	AIR AND WATER POLLUTION	1
2.	ACCESS DURING CONSTRUCTION	2
3.	MAILBOXES	3
4.	GARBAGE COLLECTION	4
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SPECIAL PROVISIONS TO THE STANDARD STREET SPECIFICATIONS

Timberwood and Gleason Estates Street Rehabilitation and Adjoining Neighborhoods within the boundaries of Elm Creek Blvd & Pineview Lane N, and 93RD Ave N & 89TH Ave N, Arbor Lakes Mill and Overlay, Jefferson Highway Mill and Overlay, and Fire Station #4 Parking Lot

PROJECT NO. 2016-01

1. AIR AND WATER POLLUTION

Pollution of natural resources of air, water and land by operations under this contract shall be prevented, controlled and abated in accordance with the rules, regulations and standards adopted and established by the Minnesota Pollution Control Agency and in accordance with the provisions of MNDOT 1717. Temporary erosion control will be covered by MNDOT 2573 and the appropriate section of this special provision.

A. General Requirements

The Contractor shall schedule and conduct construction activities in a manner that will minimize soil erosion and the resulting siltation and turbidity of surface waters. If a NPDES permit is required, ***the contractor shall*** obtain said permit. ***The Contractor shall*** comply by the requirements herein regardless of whether or not an NPDES permit for the work is required.

The Contractor shall establish a chain of responsibility for their operations and their subcontractor's operations to ensure that the Storm Water Pollution Prevention Plan is implemented over the life of the Contract.

B. Quality Control

The Contractor shall be responsible for maintaining a quality control program to ensure erosion is controlled, sedimentation is prevented, and provisions of permits are adhered to. A Certified Erosion Control person, or trained personnel, shall conduct the quality control program as well as perform the required duties listed in these Special Provisions.

The quality control program shall consist of:

- 1) Conducting inspections required (like those on an NPDES permit) and maintaining an inspection log.
- 2) Ensuring that erosion control is incorporated into the work in a timely manner and that disturbed areas are stabilized with mulch/seed or vegetative cover on a section-by-section basis.
- 3) Ensuring, in accordance with 2573.3, that temporary erosion and sediment control devices are maintained and removed when they are no longer necessary.

The Contractor's quality control and inspection procedures shall be subject to review by the Engineer. NPDES inspection records shall be maintained by the Contractor at the Project site and made available at all times for verification by the Engineer.

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C. Drainage Structure Sediment Protection

The Contractor shall supply, place, and maintain erosion control devices on all catch basins within, and adjacent to, the project boundaries during construction. **A record of device maintenance shall be kept by the Contractor and submitted to the City.** The erosion control devices shall be removed after the area has been stabilized. Catch basin erosion devices shall be as specified in the City of Maple Grove's Standard Specification for Utility and Street Construction. Payment for Drainage Structure Sediment Protection shall be at the contract unit price per **Each** and includes placement, maintenance and removal per manufacturer specifications. Payment shall be made upon removal.

D. Silt Fence and Floating Silt Curtain

- 1) Silt fence shall be per Maple Grove Plate No. 5212 except woven wire fence is not required and fabric will be Mirifi 100x or equal. Silt fence that is not maintained throughout the entire duration of the project will not be paid for.
- 2) Floating Silt Curtain shall be as specified in MNDOT 3887. Floating silt curtain must be checked daily by the Contractor and a daily log shall be maintained.

Payment for Silt Fence and Floating Silt Curtain shall be at the contract unit price of **Linear Foot** of silt fence or floating silt curtain installed and includes all tools, labor, equipment, installation, **maintenance**, and removal of the silt fence and floating silt curtain.

2. ACCESS DURING CONSTRUCTION

The Contractor shall primarily access the Phase 1 areas by use of 90TH PL N & Elm Creek Pkwy, Phase 2 areas by use of 91ST Ave N and Pineview LN N or 89TH Ave N and Rosewood LN N.

Access for residents during construction is of critical concern to all parties involved in this project. During construction, the Contractor will be required to accomplish the following to ensure access is provided as desired:

- A. **The Contractor shall** maintain access to all streets within the construction limits. The residents shall also have access to their driveways. Access will be limited during the placement of concrete curb and gutter in front of residents' driveways. Once the concrete curb is poured, all traffic will need to stay off it for a period of 5 to 7 days.
- B. The Contractor is allowed to close a section of the roadway during the workday **as long as all affected residents are given a 24 hour notice before the closure.**
- C. At the end of the working day, the road and affected driveways shall be re-opened and all sections must be restored to a completely drivable roadway with all

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surfaces leveled off and compacted. The Contractor will not be permitted to have any open trenches at the end of the working day (unless permitted by the Project Coordinator). If trenches are left open, **the Contractor shall** place appropriate barricades and safety measures to safeguard the residents.

- D. Failure to restore resident access to driveway by the Contractor is subject to reduction in incentive as described in the Specifications section of these Contract Documents.

3. MAILBOXES

Prior to any work beginning on mailboxes, it is *the Contractor's responsibility* to contact the US Postal Service and inform them of their intentions. Only after that contact may the Contractor begin salvaging mailboxes and installing temporary mailboxes at the areas designated and confirmed by the US Postal Service.

A. Temporary Mailboxes

The Contractor will provide temporary mailboxes with house numbers and grouped by street names for each residence at the curbside in a central location. The temporary mailbox location shall be proposed by the Contractor and agreed upon with the City prior to placement. The Contractor shall provide notice to affected residents of the temporary mailbox effective date and location. This must be completed before the salvaging of mailboxes begins. All mailboxes shall have a bag placed over them to indicate that the mailbox is not in service. Reference the Salvage and Install Mailboxes section for mailboxes that are required to be salvaged/disturbed by the construction. **There must be an additional box or container for each resident for the newspapers that are delivered to the homes.** During each phase of construction, a bank of mailboxes and newspaper containers will be placed at a designated location, including boxes for each residence within that particular phase of work. Payment for Temporary Mailbox shall be at the contract unit price **Each** and includes all materials, equipment and labor for the placement and removal of Temporary Mailboxes. There will be no payment issued until the contractor and the City's representative have agreed on the quantity of temporary mailboxes for each phase.

B. Salvage and Install Mailboxes

Mailbox relocation will be required for this project. Prior to beginning construction in a Phase, each resident's mailbox that will be disturbed by construction will be carefully removed from its location by the Contractor and placed near the resident's garage. At the time of the removal, **the Contractor shall** inspect, document condition, tag, and inventory all mailbox posts and boxes in the presence of the project representative. A written inventory of all those that are in need of repair or replacement shall be immediately presented to the project representative. The project representative will then notify all homeowners that have mailboxes that are in need of replacement due to deterioration. The homeowner will be responsible to replace the mailbox. The contractor will be responsible for installation.

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Payment for Salvage and Install Mailbox shall be at the contract unit price **Each** and includes all materials and labor required to remove, provide temporary service, and relocate the mailboxes as described above. Posts or mailboxes negligently damaged by the Contractor during removal will be replaced with a like-kind post by the Contractor with no additional compensation.

Within **seven days** of the placement of the bituminous base course, **the Contractor shall reinstall** each salvaged/disturbed mailbox and reestablish mail service to all mailboxes in accordance with Postal regulation and as directed by the Project Representative. The Contractor shall notify affected residents of mailbox re-instatement.

4. GARBAGE COLLECTION

The Contractor shall provide on-site sanitation for the Contractor's employees and the Engineer. This will be incidental to the project with no direct payment thereof.

The Contractor shall coordinate his work to allow garbage collection. ***The Contractor shall*** communicate with the haulers and maintain proper access. The costs for scheduling and maintaining access shall be incidental to the project with no direct payment.

5. TRAFFIC CONTROL

The Contractor shall place advance warning signs a minimum of ten (10) days prior to work beginning on each phase of the work. The signs should state the anticipated dates of construction for each segment.

The Contractor shall maintain two way traffic at all times.

The Contractor shall furnish, install, and maintain all traffic control devices needed to guide, warn, control, protect and/or exclude traffic from and through the project. All traffic control devices and other protective measures for the roadway and any lane closures and bypasses shall be in conformance with the Minnesota Manual on Uniform Traffic Control Devices and the most current edition of the Field Manual for Temporary Traffic Control Zone Layouts. This includes painting, taping or affixing necessary pavement markings, as required, and the removal of these markings along with any other conflicting markings.

The Contractor shall provide, install, maintain, and ultimately remove all traffic control devices necessary to safely and efficiently control and guide traffic in the project area, as provided in the Contract. This shall include, but not be limited to, Type III Barricades with 2 Type A lights and flashers at all intersections adjacent to bituminous streets and roadways under construction. Payment for Traffic Control shall be at the contract unit price **Lump Sum**.

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The Contractor shall be solely responsible for the establishment and maintenance of all traffic control devices during the entire life of this Contract, including all Subcontractor activities and any times of work suspension for any reason whatsoever.

In the event of severe weather conditions, ***the Contractor shall*** provide additional personnel and equipment as required to maintain all traffic control devices.

The Contractor shall keep all traffic control signs and devices, furnished by the Contractor, in legible condition. This shall include, but not be limited to, removing any grime deposited on any traffic control devices by traffic or natural causes or when requested by the Engineer.

The Contractor shall during the times that any traffic control devices furnished and installed by the Contractor are in place, provide a person on a daily basis to inspect and insure that all traffic control devices required for the particular traffic control stage in effect are in accordance with the MN MUTCD and the Field Manual for that particular traffic control stage. Any discrepancy between the actual devices in use and the required devices shall be immediately rectified by the Contractor.

The Contractor shall furnish names, addresses, and phone numbers of at least three (3) individuals responsible for the placement and maintenance of traffic control devices. At least one of those individuals shall be "on call" 24 hours per day, seven days per week; during the times any traffic control devices furnished and installed by the Contractor are in place.

The Contractor shall have at least five (5) extra Type III barricades, five (5) extra drums, and twenty (20) extra Type I barricades with flashers and thirty (30) additional reflective orange traffic cones stored at a convenient nearby site for use in an emergency.

The Contractor shall be required to respond to any request from the Engineer, or any designated representative of the City of Maple Grove to improve or correct the usage of traffic control devices on, or related to, this project within one (1) hour of the time of notification.

In the event that the Contractor does not respond within the time restraints to requests concerning improving and/or correcting the traffic control devices, ***the Contractor shall*** be responsible for all cost incurred by the City if other actions are required due to lack of timely response.

In addition to other general daily maintenance requirements, ***the Contractor shall*** relocate to their proper location, clean and/or realign all traffic control devices as necessary on a daily basis, including traffic control devices displaced by Subcontractor operations. The Contractor should document daily inspection dates and items to be furnished upon request to the Engineer.

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6. STAKING

The Contractor shall review the survey staking needs of the project with the Engineer at the pre-construction conference and periodically during the course of the work as necessary to properly plan the staking effort. Staking shall not be laid out further ahead of the work than is necessary to properly organize and plan the work to avoid the loss of stakes.

The Contractor shall give the Engineer no less than 5 working days advance notice of the need for stakes. Stakes will be provided as are reasonably and customarily necessary to the type of work of this project. The Contractor will be provided with one set of stakes. The cost of any re-staking due to negligence will be deducted from the amounts due the Contractor.

7. REMOVAL OF PAVEMENT AND MISCELLANEOUS STRUCTURES

A. Mill and Remove Existing Bituminous Street

- 1) ***The Contractor shall*** mill and remove the top 1.5" of the existing bituminous where indicated on the plans. Contractor shall preserve existing curb and gutter in mill areas.

Payment for the Mill and Remove Existing Bituminous Street (1.5") shall be at the contract unit price per **Square Yard**.

B. Disposing of Excess Reclaimed Material

All Excess Reclaimed Material shall be disposed of off-site and is the responsibility of the contractor. Payment for the Disposing of Excess Reclaimed Material shall be at the contract unit price per **Cubic Yard (CV)**. This does not preclude the contractor from using the material in other places on the project as long as the aggregate passes the gradation requirements. All remaining excess material will be removed from the jobsite prior to substantial completion.

C. Remove Concrete Curb and Gutter – All Types

The proposed concrete curb and gutter to be removed is shown on the plans. Contractor shall not remove curb and gutter within mill and overlay areas as shown on the plans. Any removal of existing concrete curb and gutter shall be as indicated in the field or as directed by the Engineer. All removals shall be disposed of off-site and are the responsibility of the contractor. Payment for Remove Curb and Gutter – All Types shall be at the contract unit price per **Linear Foot**.

The Contractor shall be held responsible for any damage due to removal/replacement of concrete curb and gutter not designated for removal.

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***The Contractor is responsible** to mark each removal with appropriate safety devices as required. The Contractor will be required to compact the select granular or Class 5 below the concrete curb and gutter. **If at least 2" of granular material is not available below the concrete curb and gutter, the Contractor shall place and compact.** Payment shall be **included** in bid unit price for concrete curb and gutter.*

D. Existing Turf/Landscaping

***The Contractor shall** limit the damage to the existing turf/landscaping areas behind the curb removal to a maximum of 2'. Any damage outside of that 2' shall be fully sodded/restored and maintained at the contractor's expense. (Utility repair areas shall be excused from the 2' limit).*

E. Sawcut Concrete Pavement

Sawcut concrete pavement shall be paid for at the unit price bid and shall include all depths of sidewalk and driveway pavement and concrete curb and gutter as designated on the plans or in the field and shall include all labor and equipment. Only one sawcut will be paid at each match line, unless the Engineer extends the removal area and an additional cut is required. Payment for Sawcut Concrete Pavement shall be at the contract unit price per **Linear Foot**.

F. Sawcut Bituminous Pavement

Sawcut bituminous pavement shall be paid for at the unit bid and shall include all labor and equipment to sawcut all edges of bituminous prior to matching with new pavement. Initial pavement cuts may be made by jackhammer or wheel to reduce breakage at the Contractor's expense. Only one sawcut will be paid at each match line, unless the Engineer extends the removal area and an additional cut is required. Payment for Sawcut Bituminous Pavement shall be at the contract unit price per **Linear Foot**.

G. Remove Bituminous Driveway and Trail

Bituminous driveway or trail removal shall be based on structure dimensions of the in-place bituminous pavement. Payment for Bituminous Driveway and Trail Removal shall be at the contract unit price per **Square Yard** and includes all labor, tools, equipment and materials necessary for bituminous pavement removal as shown or directed.

H. Remove Concrete Driveway and Sidewalk Pavement

Concrete driveway or sidewalk removal shall be based on structure dimensions of the in-place concrete. Payment for Concrete Driveway and Sidewalk Removal shall be at the contract unit price per **Square Foot** and includes all labor, tools, equipment and materials necessary for concrete removal as shown or directed.

I. Miscellaneous Removals and Replacement

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The temporary removal, storage, salvage and replacement of street signs, traffic control signs, and miscellaneous items shall be performed by the Contractor and shall be incidental to the project. ***The Contractor shall*** be responsible for the replacement of any signs or mailboxes damaged or lost as a result of the project construction. All items shall be stored in a central location approved by the Engineer.

J. Guideline for Salvage of Signs

These requirements are to ensure that signs, posts and sign locations are preserved during construction. Preservation of the sign units and records pertaining to the location of all signs removed and/or damaged is the responsibility of the Contractor. If signs, posts or locations are lost or damaged, the Contractor is responsible for utility location, repair, reinstallation and all administration connected to the corrective work required and shall be incidental to the project. If a sign is required to be removed as a result of the project, the Contractor shall salvage the sign and reinstall as soon as possible per guidance in this section. Payment for Salvage and Install Sign shall be at the contract unit price per **Each** and includes salvage and storage of existing sign assembly, installation of temporary sign units as necessary, and installation of salvaged sign assembly.

During construction all traffic control signs removed to facilitate work or accidentally damaged/removed must be replaced immediately or temporary sign units must be placed. Traffic control must be maintained if the roadway is open to any traffic. Traffic control and any costs connected to such control are the responsibility of the Contractor, not the City of Maple Grove, unless specifically stated otherwise in the contract.

If the City finds it necessary to take corrective action as a safety issue, the Contractor will be billed for all costs. These costs include, but are not limited to, utility location, repair, reinstallation, rental costs, delivery, travel and administration connected to installing and maintaining corrective signage.

8. EXCAVATION AND EMBANKMENT

The Contractor shall perform excavation and embankment work as required to complete the project. The grading work shall be in accordance with MNDOT 2105, except as modified below:

A. Subgrade Excavation

Payment for Subgrade Excavation shall be paid per **Cubic Yard** as measured in the field. This shall be compensation for all costs in performing this work. The quantity of this item could vary widely and any change in the proposed quantity will not be justification for any change in the contract unit price. The exporting of any of the excavated excess material from the project is included in the cubic yard price. Failure of installed materials to meet density and gradation

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requirements will not be authorized for a cost deduct of in place materials, and correction at the contractors cost will be required.

9. SELECT GRANULAR BORROW MOD (CV)

The Contractor shall place Select Granular Borrow in compliance with MNDOT 3149.2 B2. Payment for Select Granular Borrow Mod (CV) shall be at the contract unit price per **Cubic Yard (CV)** and includes tolerancing and compacting the granular borrow.

10. GEOTEXTILE FABRIC

The work under this section shall include furnishing and installing Type 5 geotextile fabric as specified in MNDOT 3733, required to complete the work as directed by the Engineer.

Payment for Geotextile Fabric, Type 5 shall be at the contract unit price per **Square Yard** of surface covered. This shall be compensation for all costs in performing this work. The quantity of this item could vary widely and any change in the proposed quantity will not be justification for any change in the contract unit price.

11. AGGREGATE BASE, CLASS 5

Any aggregate base material furnished shall be in compliance with MNDOT 2211, compact to the required densities, not rut or be displaced under construction traffic or paving, and shall remain stable at all times. Payment for Aggregate Base, Class 5 shall be at the contract unit price per **Cubic Yard (CV)**. Failure of installed materials to meet density and gradation requirements will not be authorized for a cost deduct of in place materials, and correction at the contractors cost will be required. Reference the Maple Grove Standard Specifications for Utility and Street Construction, Specifications for Grading and Landscaping.

Reclaimed material used for Class 5 base shall meet MNDOT 3135.

12. MANHOLE AND CATCH BASIN CASTINGS

For all manhole and catch basin castings in the paving area, all adjustment rings shall be removed. The existing manhole structure shall be securely covered with a CZ manhole seal (supplied by the City of Maple Grove). The Contractor shall coordinate with the City to retrieve the CZ manhole seals from the City Public Works facility, transport them to the project site and install. The Contractor shall also furnish a metal plate to be installed over the CZ manhole seal.

Maple Grove Public Works
9030 Forestview Lane N
Maple Grove, MN 55369
763-494-6370

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The Contractor is responsible for providing location markings for all buried manhole locations within 24 hours of lowering below grade and maintaining until the manhole is raised. This could include offset stakes or markings on base course. Contractor is required to provide marking methods to city upon marking locations.

After the bituminous base has been placed, new rings and a casting (reference Contract Documents for either salvaged or new casting) shall be installed and adjusted. The adjustment shall be made from the top of the manhole cone to the bottom of the manhole "frame" or "casting" by installing concrete adjusting rings, as needed.

The concrete adjusting rings and the casting itself shall be sealed to the cone and one to the other by using a prepackaged mortar mix in accordance with the proportions of MNDOT 2506 and ASTM C 270. This will also be used for all "mud work" (grout) inside of concrete structures.

The Contractor shall maintain and keep clean all manholes during and after construction, as needed, with no direct compensation. All construction debris shall be removed immediately by the Contractor. The use of a manhole debris catcher equal or equivalent to that provided by Grappler Specialty Products (www.grapplerusa.com) or Sealing Systems, Inc. (www.ssisealingsystems.com) must be used when removing concrete rings, rehabilitating, or constructing manholes, catch basins, and structures. The intent is to catch falling debris such as concrete demo debris, grout mixture, soil, etc.

Once the CZ manhole seals are no longer needed on site, the Contractor shall remove debris, clean, and return the CZ manhole seals to the City yard.

A. Salvage and Install Casting

Payment for the Salvage and Install Casting shall be at the contract unit price per **Each** and includes salvage and storage of existing casting, removal of existing adjustment rings, furnish and installation of new adjustment rings, and installation of salvaged casting. It shall be paid for once, regardless of the number of adjustments which may be made.

B. Remove and New Casting

Payment for the Remove and New Casting shall be at the contract unit price per **Each** and includes removal and disposal of existing casting, removal of existing adjustment rings, furnish and installation of new adjustment rings, and furnish and installation of new casting. It shall be paid for once, regardless of the number of adjustments which may be made.

C. Grout Catch Basin or Manhole

Manhole and catch basin structures shall be repaired by the grouting method using a prepackaged mortar mix in accordance with the proportions of MNDOT

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2506 and ASTM C 270. Payment for the Grout Catch Basin or Manhole shall be at the contract unit price per **Each**. Known locations where grouting of existing structure is required are identified on the Contract Documents. Additional locations where grouting of structures is required shall be determined on an as-needed basis in the field.

13. ADJUST GATE VALVE

All valve boxes shall be removed or lowered below all construction activity in the paving area. The valve box sections shall be clean, lowered and the valve box shall be securely covered. After the bituminous base course has been placed, the valve box shall be adjusted or raised to 1/4" to 1/2" below the finished bituminous surface.

The Contractor is responsible for providing location markings for all buried valve locations within 24 hours of lowering below grade and maintaining until the valve is raised. This could include offset stakes or markings on base course.

The Contractor shall clean all valve boxes during and after construction, as needed, to ensure placement of shutoff tool, with no direct compensation.

Payment for the Adjust Gate Valve shall be at the contract unit price per **Each**. It shall be made once for each item regardless of the number of adjustments which may be made.

In the event an existing valve box is found broken and is needed to be replaced, the materials for the replacement shall be supplied by the City of Maple Grove.

NOTE: No valve box shall be operated by anyone other than an employee of the City of Maple Grove's Utility Department.

14. CONCRETE CURB AND GUTTER, SIDEWALK, PEDESTRIAN CURB RAMPS

All concrete curb and gutter must comply with the City of Maple Grove Standard Specifications for Utility and Street Construction, any amendments, Maple Grove Standard Detail Plates 2015, and MNDOT 2461 and 2531.

MNDOT 2461.3 G.3 stating no more than 90 minutes of batching when all admixtures are added at the plant to the time the material is deposited in the work, will be strictly enforced. If over 90 minutes, the load will be rejected and not allowed to be placed.

Homeowners affected by concrete operations must be notified by the Contractor before the operation begins. Newly placed concrete pavement shall be protected by the Contractor until the required concrete strength is obtained (5-7 days). Protection shall be completed by placing cones, barricades, warning tape or similar means.

A. Curb and Gutter

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- 1) All curb replacement over 100' in length must be placed by a curb machine.
- 2) The Contractor must use full depth forms on all curb replacements under 100'.
- 3) All concrete spillage in front or back of forms and into catch basins, valves, etc. shall be removed at time of concrete placement. This spillage is not to be dumped behind the curb and is the responsibility of the persons who are placing the concrete.
- 4) The replacement of any newly placed concrete or existing concrete damaged by the Contractor during this project shall be at the discretion of the Owner. The Contractor is responsible for all related replacement costs.
- 5) The 4' concrete cross street gutters shall be paid for at the contract unit price per **Square Foot**.
- 6) Payment for Concrete Curb & Gutter – Surmountable or Concrete Curb & Gutter – B618 shall be at the contract unit price per **Linear Foot**.
- 7) Place CLEAR membrane curing compound on all existing and new curb and gutter, excluding all newly placed concrete pavement. The only authorized curing compound is clear curing compound. No white compound is to be used. The purpose of this item is to give all existing and new curb and gutter a consistent new curb appearance.

After the sod is laid but before the bituminous wear course is placed, remove all vegetation from curb joints, edge back of curb to expose all of top of curb and power wash curb and gutter. Right after washed curb and gutter dries, spray one coat of concrete membrane curing compound at a constant rate of application to **assure a uniform look** on the curb and gutter. When applying the membrane curing compound, the temperature must be 50° and rising and not too windy so that overspray will not carry away from the curb.

After first coat dries, apply a second coat of concrete membrane curing compound on the curb and gutter. Do NOT let membrane curing compound get beyond the back of curb and gutter. Special consideration must be used to assure that no overspray (from the wind or from the sprayer) gets on any driveway. Homeowners affected by this operation **must be notified before** the operation begins so that they do not drive on the wet curing compound (cone off driveways). Curing placed on curb at driveways must be protected by the Contractor so cars cannot drive on the wet curing compound and track it on the driveway or street. Payment for Concrete Curb & Gutter Membrane Curing Compound shall be at the contract price per **Linear Foot**.

B. Sidewalk

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Sidewalk areas located in the reconstruction area that require removal and replacement will be identified by the Owner. Payment for 5" Concrete Sidewalk with 4" Class 5 Base shall be at the contract unit price per **Square Foot**. When tying into existing concrete surfaces, Contractor shall use a curing compound that best matches existing coloration. At replacement sidewalk locations, the Owner reserves the right to request a clear membrane curing compound be applied; clear TK2519 DCWB, AMS 3754 Clear or approved equal.

C. Pedestrian Curb Ramps

All pedestrian ramps on the project shall be installed in compliance with the Maple Grove Standard Plates for pedestrian curb ramp installation. Payment for Remove and Install Pedestrian Curb Ramps (both One-Way Directional and Fan) shall be at the contract unit price per **Each** and includes all labor, materials, tools, and equipment necessary to saw cut and remove existing concrete or bituminous pavement, new 6" concrete pavement with 4" class 5 base, and truncated domes. All removals shall be disposed of off-site and are the responsibility of the contractor. Other improvements, such as restoration or curb and gutter removal and replacement will be paid for at the contract unit price for those items.

15. BITUMINOUS PAVING

Payment for Bituminous Paving shall be contract unit price per **Square Yard** of mixture per the depth required. The payment will be calculated from the actual dimensions of the work performed in accordance with the standard roadway cross-sections. All unsatisfactory areas (soft areas) in the bituminous layers shall be replaced at the Contractor's expense.

The Contractor must notify affected residents no less than 24-hours in advance of final bituminous lift installation.

Numbers for the bituminous mixtures are as follows unless otherwise indicated in the Plans and Specifications:

A. Reconstruction Area - Streets

Type SP 12.5 Non-Wear Course (2,B)	SPNWB330B
Type SP 9.5 Wear Course (2,B)	SPWEA330B

B. Reconstruction Area – Bituminous Trail and Driveway Patching

Type SP 9.5 Wear Course (2,B)	SPWEA240B
-------------------------------	-----------

16. DRIVEWAY RESTORATION

All driveways disturbed by the project shall be restored to equal or better condition than before this project started. Homeowners affected by this operation **must be notified by the Contractor before** the operation begins. The first driveway, of each

SPECIAL PROVISIONS TO THE STANDARD STREET SPECIFICATIONS
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type, placed shall be inspected and acceptance given by City personnel before the next driveway is placed. Newly placed driveways shall be protected by the Contractor until the required strength for vehicle traffic is obtained. Protection shall be completed by placing cones, barricades, warning tape or similar means.

A. Bituminous Driveways

Payment for Bituminous Driveway Pavement shall be at the contract unit price per **Square Yard**. It shall include all labor, materials, tools, and equipment necessary to construct the driveway pavement, including common excavation, grading, 6" Class 5 aggregate base and the construction of the bituminous wearing course. **Driveways shall be placed in two lifts (1 ½" per lift).** Tack coat material shall be applied to all adjoining bituminous surfaces and between lifts. Bituminous driveways shall be resurfaced with a smooth uniform texture, with minimal aggregate showing and closed with no voids.

B. Concrete Driveways

Payment for Concrete Driveways shall be at the contract unit price per **Square Foot**. It shall include all labor, materials, tools and equipment necessary to construct the driveway pavement. Concrete driveways shall be resurfaced in kind or with 5" to 8" of concrete mix design 3A32, over 4" of aggregate Class 5. The 5" or 8" depth of concrete driveway shall be at the Engineer's direction. The mix design shall be submitted to the Engineer for approval.

C. Paverstone Driveways

Payment for Salvage and Install of Paverstone Driveways shall be at the contract unit price per **Square Foot** and shall be paid upon installation of pavers. It shall include the removal, storage of paverstone materials in a secure area, and all labor, materials, tools, and equipment required for reinstallation of the salvaged paverstones. It shall include 6" of compacted Class 5 gravel base, sand bedding, and Pavertech edging.

D. Aggregate Driveways

The payment for aggregate driveways restored shall be **under the aggregate base item**. Aggregate driveways shall be restored with 6" of class 5 aggregate.

17. REPAIR UNDERGROUND PET CONTAINMENT SYSTEM

Any damaged underground pet containment systems in the boulevard area shall be repaired under this unit price. Payment for Repair Underground Pet Containment System shall be made at contract unit price **Each** and shall be compensation in full for all labor, materials, and equipment necessary to complete the specified work for the identified parcel, regardless of the number of locations or occasions that the identified system requires repair. **All systems shall be temporarily repaired and tested to allow the remaining system to function during the duration of the construction until final repairs are able to be made.** All final repairs shall be with

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the same system and materials. Any connections or splices made in the system shall be repaired with a watertight connection. The repairs shall be made by a qualified installer who must operate the system (to insure it operates properly) and inform the homeowner what repairs have been completed. Repair of underground pet containment systems must be prior to placement of sod.

If the system is damaged due to the sodding operation, **the Contractor, at his own expense, shall repair the system to the requirements above.**

18. SALVAGE AND REPAIR IRRIGATION SYSTEM

Any damaged private irrigation system in the boulevard area shall be repaired under this unit price. Payment for Salvage and Repair Irrigation System shall be made at contract unit price **Each**. A unit is that complete irrigation system on an individual lot. Any systems damaged outside the right-of-way shall be repaired at the Contractor's expense. **All systems shall be temporarily repaired and tested to allow the remaining system to function during the duration of the construction until final repairs are made.** All final repairs shall be with the same style heads and materials. The repairs shall be made by a qualified irrigation system installer. They must operate the system (to insure it operates properly) and inform the homeowner of what repairs have been completed. Repair of sprinkler systems must be prior to placement of sod.

If the sprinkler system is damaged due to the sodding operation, **the Contractor, at his own expense, shall repair the sprinkler system to the requirements above.**

19. LANDSCAPE RESTORATION

At the direction of the City representative, the Contractor shall re-establish all landscaping areas disturbed through the construction process, excluding sod, which is paid as separate item. Payment for Landscape Restoration shall be made at the contract unit price **Each**. It shall be considered compensation in full for all labor, equipment and materials (including, but not limited to, shrub replacement, landscape rock, edging, flowers, etc.) required to restore the area to its condition prior to construction.

The address of

20. CLEAN UP AND RESTORATION

The Contractor shall clean up all construction debris and restore the grade in all areas adjacent to the construction on a daily basis and when ordered by the City representative.

All debris shall be hauled from the site by the Contractor and disposed of in a proper manner. The Engineer may request the site be cleaned during construction at any time. **The Contractor shall** clean the site within 24 hours after request. Non-compliance will result in shut down of the project until clean-up is completed.

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All cleanup and restoration work shall be considered incidental to work for which payment is made, unless specifically identified as a bid item.

21.6" TOPSOIL AND SOD

The provisions of MNDOT 3878.2 (A) shall govern for lawn sod quality.

The provisions of MNDOT 3877.2 (B) Loam Topsoil Borrow, Modified to 70% 3877.2 and 30% 3890.2 (A) Grade 1 Compost, shall govern for topsoil quality. Samples shall be submitted to the Engineer for testing 15 days prior to any hauling or placement on the project.

After the sod is placed and until it is accepted, ***the Contractor shall water and maintain sod in a condition satisfactory to the Engineer.*** The sod shall be cared for on a timely day by day basis. Watering and replacement of sod shall be accomplished as the need arises and without the Engineer having to so order.

The Contractor shall maintain the sod for 30 growing days and notify the Engineer when the thirty days are up. The Engineer will then make the final inspection and consider acceptance of the sod after notification by the Contractor that the 30 days are up. A growing day is any calendar day exclusive of those days from June 10 to August 10 and from November 1 to April 15, subject to adjustments by the Contract. The above specified dates may exclude periods when conditions are favorable to active growth, or lengthen the excluded periods when conditions are unfavorable. This will be decided between the sodding contractor and the City representative.

During the maintenance period, ***the Contractor shall promptly replace*** all sod that dries out to the point where it is presumed dead, and all sod that has been damaged, displaced, or weakened to the point where its replacement is necessary, or has become heavily infected with weeds. Areas replaced with new sod shall be maintained by the Contractor for at least 20 growing days after placement.

Payment for 6" Topsoil and Sod shall be at the contract price per **Square Yard**. It shall include all labor, materials, tools, and equipment required to install and maintain the sod for 30 growing days. The sod shall be measured in the field after installation and quantity agreed upon by both Owner and Contractor within 72 hours.

22. WATER USE

The Contractor may use water from the City upon placing a refundable deposit of \$1,000 for a hydrant meter. From the \$1,000.00 deposit the City will deduct the rental charge (\$5.00 per day) and water cost (\$1.50 per 1,000 gallons). Only hydrants designated by the Utilities Supervisor shall be used (preferably cul-de-sac locations). ***The Contractor shall*** keep a log book in the water truck that states the date, time, meter reading and use of each load on a daily basis. **If no entries are**

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made in the log book, the previous meter reading shall be used. No payment will be made for that day.

A. Water Use for Dust Control

This quantity is to be used only for dust control. Contractor shall respond to any requests for water for dust control within **four working hours**. No payment shall be made for any use other than dust control, or if applied later than four working hours after request. Payment for Water for Dust Control shall be at the contract unit price per **MGAL**.

B. Special Water Use

This quantity is to be used only for special watering conditions and shall be as ordered by the Engineer or his representative. No payment shall be made unless ordered by the Engineer or his representative. Payment for Special Water Usage shall be at the contract unit price per **MGAL**.

23. PERMANENT PAVEMENT MARKINGS

A. Markings shall be per MNDOT 2582 and Minnesota Manual on Uniform Traffic Control Devices. Payment shall include all tools, labor, equipment, layout, traffic control and installation of the pavement markings.

1) Payment for Permanent Pavement Markings shall be at the contract unit price of **Each** for pavement messages installed.

2) Payment for Permanent Pavement Markings shall be at the contract unit price of **Linear Foot** for linear markings installed.

3) Payment for Permanent Pavement Markings shall be at the contract unit price of **Square Foot** for cross walk markings installed.

B. Pavement marking removal shall be per MNDOT 2102 and Minnesota Manual on Uniform Traffic Control Devices. Payment shall include all tools, labor, equipment, traffic control, and removal of the pavement markings

1) Payment for Pavement Marking Removal shall be at the contract unit price of **Linear Foot** for linear markings removed.

24. STORM SEWER

Storm sewers within the street reconstruction area shall be reconstructed and/or maintained as identified on the Contract Documents or at the direction of the Owner. Improvements, such as new catch basins, catch basins +sumps, and pipe, will be paid for at the contract unit price for those items.

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A. Payment for connecting pipe or catch basins to existing structures or pipe will be paid for at the contract unit price for those items.

B. When installing new pipe or catch basins, the connection to existing structures and the excavation will be considered incidental to the unit price of that item and paid as such at the unit price per the contract, regardless of quantities.

AFFIDAVIT AND INFORMATION REQUIRED OF BIDDER

Affidavit of Non-Collusion:

I hereby swear (or affirm) under the penalty for perjury:

- (1) That I am the bidder (if the bidder is an individual), a partner in the bidder (if the bidder is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the bidder is a corporation);
- (2) That the attached bid or bids have been arrived at by the bidder independently, and have been submitted without collusion with, and without any agreement, understanding, or planned common course of action with, any other vendor of materials, supplies, equipment or services described in the invitation to bid, designed to limit independent bidding or competition;
- (3) That the contents of the bid or bids have not been communicated by the bidder or its employees or agents to any person not an employee or agent of the bidder or its surety on any bond furnished with the bid or bids, and will not be communicated to any such person prior to the official opening of the bid or bids; and
- (4) That I have fully informed myself regarding the accuracy of the statements made in this affidavit.

Signed: _____

Firm Name: _____

Subscribed and sworn to before this ____ day of _____, 20____.

Notary Public: _____

My Commission Expires: _____

Bidder's E.I. Number

(Number used on Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941):

CITY OF MAPLE GROVE

AFFIRMATIVE ACTION QUESTIONNAIRE

FOR CONTRACTS OVER \$100,000.00

Please complete the questionnaire shown below and attach this sheet to the bid proposal.

This sheet along with the Affirmative Action Certificate should be submitted with the bid.

Failure to do so may cause the bid to be rejected.

I hereby certify that I have reviewed the Affirmative Action requirements as required by the State of Minnesota Statue 363A.36 and declare the (check one):

☐

We have fewer than 40 employees and are therefore exempt from the Affirmative Action requirement.

or

☐

We have attached a certified copy of our Affirmative Action Certification.

or

☐

We do not have a Certificate.

Name

FORM OF AGREEMENT

THIS AGREEMENT, entered into this _____ day of _____, 2016, by and between the _____ City of Maple Grove _____ hereinafter called the "Owner" and _____ hereinafter called the "Contractor".

THIS AGREEMENT WITNESSETH, that the Owner and the Contractor, for the consideration hereinafter stated, agree as follows:

ARTICLE I. The Contractor hereby covenants and agrees to perform and execute all the provisions of the plans and specifications as prepared by The City of Maple Grove - Engineering Department, and indicated below under Article IV, as provided by the Owner for:

and to do everything required by this agreement and the contract documents.

ARTICLE II. The Contractor agrees that the work contemplated by this contract shall be fully and satisfactorily completed on or before _____.

ARTICLE III. The Owner agrees to pay and the Contractor agrees to receive and accept payment in accordance with the prices bid for the unit or lump sum items as set forth in the conformed copy of Proposal Form hereto attached, which prices shall conform to those in the accepted Contractor's Proposal on file in the Office of the City Clerk, City of Maple Grove the aggregate of which prices, based on the approximate schedule of quantities is estimated to be \$_____. Monthly and final payment shall be made as provided in the City's Standard Specifications for Utility and Street Construction referred to herein.

FORM OF AGREEMENT

ARTICLE IV. The contract documents shall consist of the following component parts:

1. Advertisement for Bids
2. Instruction for Bidders
3. Proposal Form
4. Standard Specifications for Utility & Street Construction dated 2016, Maple Grove.
5. Special Provisions of the Project Specifications.
6. Affidavit and Information Required of Bidder
7. Affirmative Action Questionnaire
8. Performance and Payment Bond
9. This Agreement
10. Responsible Bidder Verification/Certificate of Compliance
11. Project Personnel Assignment Form
12. Contractor's Payment Bond
13. Contractor's Performance Bond
14. Plans and drawings which are attached to the specifications or which are identified as Sheets 1 through 45 for: 2016-06 Project

Each and all of the aforementioned contract documents are hereby incorporated into this agreement by specific reference and the terms and provisions thereof are and constitute a part of this Agreement as though attached hereto or fully set forth herein.

IN WITNESS WHEREOF, the parties to this Agreement have hereunto set their hands.

CITY OF MAPLE GROVE

By _____
Mayor

And _____
City Administrator

FORM OF AGREEMENT

COMPANY NAME.

By_____

And_____

STATE OF MINNESOTA)
COUNTY OF HENNEPIN) SS.
CITY OF MAPLE GROVE)

The foregoing Contract was acknowledged before me this _____ day of _____
2016, by the Mayor and City Administrator of the CITY OF MAPLE GROVE, a Minnesota municipal corporation,
on behalf of said corporation.

STATE OF MINNESOTA)
COUNTY OF HENNEPIN) SS.

The foregoing Contract was acknowledged before me this ____ day of _____
2016, by _____ and _____ of
_____ on behalf of said corporation.

(Company Name)

FORM OF AGREEMENT

CERTIFICATE OF ACKNOWLEDGMENT

(For use where Contractor is individual or partnership)

STATE OF MINNESOTA)
COUNTY OF) SS
)

On this ____ day of _____, 2016, before me personally appeared
_____, to me known to be the person__ described in and who executed
the foregoing Contract, and acknowledge that ____he____ executed the same as free act and deed.

(NOTARIAL SEAL)

Notary Public

ATTACHMENT A

RESPONSIBLE CONTRACTOR VERIFICATION AND CERTIFICATION OF COMPLIANCE

PROJECT # _____

Minn. Stat. § 16C.285, Subd. 7. **IMPLEMENTATION.** ... any prime contractor or subcontractor that does not meet the minimum criteria in subdivision 3 or fails to verify that it meets those criteria is not a responsible contractor and is not eligible to be awarded a construction contract for the project or to perform work on the project...

Minn. Stat. § 16C.285, Subd. 3. **RESPONSIBLE CONTRACTOR, MINIMUM CRITERIA.** "Responsible contractor" means a contractor that conforms to the responsibility requirements in the solicitation document for its portion of the work on the project and verifies that it meets the following minimum criteria:

- | | |
|-----|--|
| (1) | <p>The Contractor:</p> <ul style="list-style-type: none"> (i) is in compliance with workers' compensation and unemployment insurance requirements; (ii) is currently registered with the Department of Revenue and the Department of Employment and Economic Development if it has employees; (iii) has a valid federal tax identification number or a valid Social Security number if an individual; and (iv) has filed a certificate of authority to transact business in Minnesota with the Secretary of State if a foreign corporation or cooperative. |
| (2) | <p>The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 177.24, 177.25, 177.41 to 177.44, 181.13, 181.14, or 181.722, and has not violated United States Code, title 29, sections 201 to 219, or United States Code, title 40, sections 3141 to 3148. For purposes of this clause, a violation occurs when a contractor or related entity:</p> <ul style="list-style-type: none"> (i) repeatedly fails to pay statutorily required wages or penalties on one or more separate projects for a total underpayment of \$25,000 or more within the three-year period; (ii) has been issued an order to comply by the commissioner of Labor and Industry that has become final; (iii) has been issued at least two determination letters within the three-year period by the Department of Transportation finding an underpayment by the contractor or related entity to its own employees; (iv) has been found by the commissioner of Labor and Industry to have repeatedly or willfully violated any of the sections referenced in this clause pursuant to section 177.27; (v) has been issued a ruling or findings of underpayment by the administrator of the Wage and Hour Division of the United States Department of Labor that have become final or have been upheld by an administrative law judge or the Administrative Review Board; or (vi) has been found liable for underpayment of wages or penalties or misrepresenting a construction worker as an independent contractor in an action brought in a court having jurisdiction. Provided that, if the contractor or related entity contests a determination of underpayment by the Department of Transportation in a contested case proceeding, a violation does not occur until the contested case proceeding has concluded with a determination that the contractor or related entity underpaid wages or penalties;* |

(3)	The contractor or related entity is in compliance with and, during the three-year period before submitting the verification, has not violated section 181.723 or chapter 326B. For purposes of this clause, a violation occurs when a contractor or related entity has been issued a final administrative or licensing order;*
(4)	The contractor or related entity has not, more than twice during the three-year period before submitting the verification, had a certificate of compliance under section 363A.36 revoked or suspended based on the provisions of section 363A.36, with the revocation or suspension becoming final because it was upheld by the Office of Administrative Hearings or was not appealed to the office;*
(5)	The contractor or related entity has not received a final determination assessing a monetary sanction from the Department of Administration or Transportation for failure to meet targeted group business, disadvantaged business enterprise, or veteran-owned business goals, due to a lack of good faith effort, more than once during the three-year period before submitting the verification;*
	* Any violations, suspensions, revocations, or sanctions, as defined in clauses (2) to (5), occurring prior to July 1, 2014, shall not be considered in determining whether a contractor or related entity meets the minimum criteria.
(6)	The contractor or related entity is not currently suspended or debarred by the federal government or the state of Minnesota or any of its departments, commissions, agencies, or political subdivisions; and
(7)	All subcontractors that the contractor intends to use to perform project work have verified to the contractor through a signed statement under oath by an owner or officer that they meet the minimum criteria listed in clauses (1) to (6).

Minn. Stat. § 16C.285, Subd. 5. **SUBCONTRACTOR VERIFICATION.**

A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project.

If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors.

A prime contractor shall submit to the contracting authority upon request copies of the signed verifications of compliance from all subcontractors of any tier pursuant to subdivision 3, clause (7). A prime contractor and subcontractors shall not be responsible for the false statements of any subcontractor with which they do not have a direct contractual relationship. A prime contractor and subcontractors shall be responsible for false statements by their first-tier subcontractors with which they have a direct contractual relationship only if they accept the verification of compliance with actual knowledge that it contains a false statement.

Minn. Stat. § 16C.285, Subd. 4. **VERIFICATION OF COMPLIANCE.**

A contractor responding to a solicitation document of a contracting authority shall submit to the contracting authority a signed statement under oath by an owner or officer verifying compliance with each of the minimum criteria in subdivision 3 at the time that it responds to the solicitation document.

A contracting authority may accept a sworn statement as sufficient to demonstrate that a contractor is a responsible contractor and shall not be held liable for awarding a contract in reasonable reliance on that statement. Failure to verify compliance with any one of the minimum criteria or a false statement under oath in a verification of compliance shall render the prime contractor or subcontractor that makes the false statement ineligible to be awarded a construction contract on the project for which the verification was submitted.

A false statement under oath verifying compliance with any of the minimum criteria may result in termination of a construction contract that has already been awarded to a prime contractor or subcontractor that submits a false statement. A contracting authority shall not be liable for declining to award a contract or terminating a contract based on a reasonable determination that the contractor failed to verify compliance with the minimum criteria or falsely stated that it meets the minimum criteria.

CERTIFICATION

By signing this document I certify that I am an owner or officer of the company, and I swear under oath that:

- 1) My company meets each of the Minimum Criteria to be a responsible contractor as defined herein and is in compliance with Minn. Stat. § 16C.285,
- 2) I have included Attachment A-1 with my company's solicitation response, and
- 3) if my company is awarded a contract, I will also submit Attachment A-2 as required.

Authorized Signature of Owner or Officer:

Printed Name:

Title:

Date:

Company Name:

Sworn to and subscribed before me this
_____ day of _____, 20____,

Notary Public

My Commission Expires: _____

PLACE NOTARY SEAL HERE

NOTE: Minn. Stat. § 16C.285, Subd. 2, (c) If only one prime contractor responds to a solicitation document, a contracting authority may award a construction contract to the responding prime contractor even if the minimum criteria in subdivision 3 are not met.

ATTACHMENT A-1

FIRST-TIER SUBCONTRACTORS LIST

SUBMIT WITH PRIME CONTRACTOR RESPONSE

PROJECT # _____

Minn. Stat. § 16C.285, Subd. 5. A prime contractor or subcontractor shall include in its verification of compliance under subdivision 4 a list of all of its first-tier subcontractors that it intends to retain for work on the project. Submit this form to biddocsubmittal.dot@state.mn.us.

FIRST TIER SUBCONTRACTOR NAMES (Legal name of company as registered with the Secretary of State)	Name of city where company home office is located

ATTACHMENT A-2

ADDITIONAL SUBCONTRACTORS LIST

PRIME CONTRACTOR TO SUBMIT AS SUBCONTRACTORS ARE ADDED TO THE PROJECT

PROJECT # _____

This form must be submitted to the Project Manager or individual as identified in the solicitation document.

Minn. Stat. § 16C.285, Subd. 5. ... If a prime contractor or any subcontractor retains additional subcontractors on the project after submitting its verification of compliance, the prime contractor or subcontractor shall obtain verifications of compliance from each additional subcontractor with which it has a direct contractual relationship and shall submit a supplemental verification confirming compliance with subdivision 3, clause (7), within 14 days of retaining the additional subcontractors. Submit this form to biddocsubmittal.dot@state.mn.us.

ADDITIONAL SUBCONTRACTOR NAMES (Legal name of company as registered with the Secretary of State)	Name of city where company home office is located

ADDITIONAL SUBCONTRACTOR NAMES (Legal name of company as registered with the Secretary of State)	Name of city where company home office is located

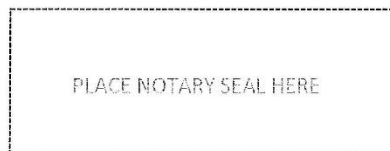
SUPPLEMENTAL CERTIFICATION FOR ATTACHMENT A-2	
<p>By signing this document I certify that I am an owner or officer of the company, and I swear under oath that:</p> <p>All additional subcontractors listed on Attachment A-2 have verified through a signed statement under oath by an owner or officer that they meet the minimum criteria to be a responsible contractor as defined in Minn. Stat. § 16C.285.</p>	
Authorized Signature of Owner or Officer:	Printed Name:
Title:	Date:
Company Name:	

Sworn to and subscribed before me this
 _____ day of _____, 20____,

 Notary Public

My Commission Expires: _____

Rev. 1-28-2015



2016-06 PROJECT PERSONNEL ASSIGNMENT FORM

PROJECT NUMBER/NAME: _____.

1. Contractor is required to submit names for Project Foreman, Project Manager (PM), and any authorized alternate site supervisors that will be committed to this project should the contractor be awarded the bid. These personnel must not have other commitments that would preclude them from being on the awarded jobsite on a daily basis as a single point of contact and coordinator for all jobsite functions. **Any persons named on this form must not be assigned to another City of Maple Grove awarded contract.**

2. **DESIGNATED PROJECT FOREMAN:** _____.

a. This individual will have no other jobs that he/she is responsible for other than the awarded contract until substantial completion has been achieved.

3. **DESINGATED PROJECT MANAGER (PM):** _____.

a. PM can be the same person assigned as the Project Foreman.

4. **AUTHORIZED ALTERNATE SITE SUPERVISOR:** _____.

5. Change in any of these positions will require notification to the city with valid contact details and as much advance notice as is reasonable for the circumstances.

6. Please submit with this form, two (2) recent references that are relevant to the job type being performed on this project for each assigned personnel.

7. Please submit with this form, two (2) recent references that are relevant to the job type being performed on this project for the company.

a. If references for the company and the personnel assigned are the same project, please annotate on the reference so credit can be applied to both.

Contractor Name Print

Contractor Signature

Date

CONTRACTOR'S PAYMENT BOND
(PUBLIC IMPROVEMENT)

KNOW ALL MEN BY THESE PRESENTS that _____

as Principal, hereinafter called CONTRACTOR, and _____

_____ duly authorized and licensed to do business in the State of Minnesota, as Surety, hereinafter called Surety, are held and firmly bound onto the City of Maple Grove

_____ as Obligee, hereinafter called OWNER, for the use and benefit of claimants as hereinafter provided in the amount of _____ (written), (\$ _____), for the payment whereof CONTRACTOR and Surety bind themselves, their heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS,

CONTRACTOR has by written Agreement dated _____, 20____, entered into a Contract with OWNER for 2016-06: TIMBERWOOD AND GLEASON ESTATES, JEFFERSON HIGHWAY, ARBOR LAKES PARKWAY, FIRE STATION #4 PROJECT in accordance with Contract Documents prepared by the City of Maple Grove which Contract is by reference made a part hereof, and is to contain in substance the following provisions:

CONTRACTOR shall pay all claims for labor performed and materials furnished, used or consumed in making the public improvement or performing the public work, including, without limitation because of specific enumeration, fuel, lumber, building materials, machinery, vehicles, tractors, equipment, fixtures, apparatus, tools, appliances, supplies, electric energy, gasoline, motor oil, lubricating oil, greases, premiums for worker's compensation insurance, and contributions for unemployment compensation.

The said written agreement, drawings, specifications, and amendments are hereinafter referred to as the Contract.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION, is such that, if CONTRACTOR shall faithfully perform the said Contract and pay every person entitled thereto for all the claims for labor performed and materials furnished under the Contract to be used or consumed in making the public improvement or performing the public work as provided in the Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect, subject, however, to the following conditions:

1. No assignment, modification or change of the Agreement, or change in the work covered thereby, or any extension of time for completion of the Contract shall release the Sureties on the bond.

2. Not later than one year after the completion of work under this Contract or such longer period of time as may be prescribed by law, or by the terms of any applicable special guarantee required by the Contract Documents or by any specific provision of the Contract Documents, any party in interest may maintain an action in his own name against CONTRACTOR and the Surety upon this bond for the recovery of any damages he may have sustained by reason of the failure of CONTRACTOR to comply with the Contract or with the Contract between CONTRACTOR and his Subcontractors. If the amount realized on this bond is insufficient to satisfy all claims of the parties in full, it shall be distributed among the parties pro rata.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument in original counterparts, under their several seals this _____ day of _____, 2016, the names and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Affix Corporate Seal)

(Company Name)

Attest:

(Business Address)

(Title)

By _____
(Title)

(Affix Corporate Seal)

(Surety)

Attest:

(Business Address)

(Attorney in Fact)

Approved by OWNER:

By: _____
(Title) (Date)

NOTE: The bond must be approved in the case of the State by the State Official authorized to enter into such Contract, of a County by its District Attorney, of a City by its Mayor, of a Village by its President, of a Town by its Chairman, of a School District by the Director or President, and of any other Public Board or body by the presiding officer thereof.

CERTIFICATE OF ACKNOWLEDGMENT

(For use where Contractor is a corporation)

STATE OF MINNESOTA)
COUNTY OF) SS
)

On this _____ day of _____, 20____, before me personally appeared _____ and _____ to me known who, being by me duly sworn, did say that they are respectively the _____ of _____ and that said instrument was executed in behalf of the corporation by authority of its Board of Directors, and said _____ and _____ acknowledged the instrument to be the free act and deed of said corporation.

(NOTARIAL SEAL)

Notary Public

Full Name of Surety Company

Home Office Address

Name of Attorney-in-fact

Name of Local Agency

Local Agency

If this bond is executed outside of the State of Minnesota, it must be countersigned on the Performance Bond by a Minnesota resident of the Surety Company.

Name of Agent affixing countersignature

Address

CERTIFICATE OF ACKNOWLEDGMENT BY PRINCIPAL

(For use where Contractor is individual or partnership)

STATE OF MINNESOTA)
COUNTY OF) SS
)

On this _____ day of _____, 20____, before me personally appeared _____
_____, to me known to be the person____ described in
and who executed the foregoing bond, and acknowledge that _he_ executed the same as _____
_____ free act and deed.

(NOTARIAL SEAL)

Notary Public

MEMORANDUM: Affix here Power of Attorney and Acknowledgment of Corporate surety.

CONTRACTOR'S PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, that _____, as Principal,
hereinafter called CONTRACTOR, and _____, as Surety,
hereinafter called Surety, are held and firmly bound onto the City of Maple Grove as
Obligee, hereinafter called OWNER, in the amount of:

(written), (\$ _____), for the
payment whereof CONTRACTOR and Surety bind themselves, their heirs, executors,
administrators, successors, and assigns, jointly and severally, firmly by these presents.

WHEREAS,

CONTRACTOR has by written Agreement dated _____, 2016, entered into a
Contract with OWNER for 2016-06: TIMBERWOOD AND GLEASON ESTATES, JEFFERSON
HIGHWAY, ARBOR LAKES PARKWAY, FIRE STATION #4 PROJECT in accordance with
Contract Documents prepared by the City of Maple Grove which Contract is
by reference made a part hereof, and is hereinafter referred to as the Agreement.

NOW THEREFORE, THE CONDITION OF THIS OBLIGATION, is such that, if CONTRACTOR
shall promptly and faithfully perform said Agreement, then this obligation shall be null and void;
otherwise it shall remain in full force and effect.

The Surety hereby waives notice of any alteration or extension of time by OWNER.

Whenever CONTRACTOR shall be, and declared by OWNER to be, in default under the
Agreement, the OWNER having performed OWNER's obligations thereunder, the Surety may
promptly remedy the default, or shall promptly:

1. Complete the Contract in accordance with its terms and conditions, or
2. Obtain a Bid or Bids for completing the Contract in accordance with its terms and conditions,
and upon determination by Surety of the lowest responsible Bidder, or if OWNER elects,
upon determination by OWNER and the Surety jointly of the lowest responsible Bidder,
arrange for a Contract between such Bidder and OWNER, and make available as work
progresses (even though there should be a default or a succession of defaults under the
Contract or Contracts of completion arranged under this paragraph) sufficient funds to pay
the cost of completion less the balance of the Contract Price, but not exceeding, including
other costs and damages for which the Surety may be liable hereunder, the amount set forth
in the first paragraph hereof. The term "balance of the Contract Price", as used in this
paragraph, shall mean the total amount payable by OWNER to CONTRACTOR under the
Contract and any amendments thereto, less the amount properly paid by the OWNER to
CONTRACTOR.

No right of action shall accrue on this bond to or for the use of any person or corporation other than OWNER named herein or the heirs, executors, administrators or successors of OWNER.

IN WITNESS WHEREOF, the above-bounded parties have executed this instrument in _____ original counterparts, under their several seals this _____ day of _____, 2016, the names and corporate seal of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

(Affix Corporate Seal)

(CONTRACTOR)

Attest:

(Business Address)

(Title)

By _____
(Title)

(Affix Corporate Seal)

(Surety)

Attest:

(Business Address)

(Attorney in Fact)

Approved by OWNER:

By: _____
(Title) _____ (Date)

NOTE: The Bond must be approved and the approval dated in every case. The title of the person signing must be indicated. Certified copy of Power-of-Attorney of signatory agent for corporate Surety must be attached in every case where corporate Surety is procured. Date of Bond must not be prior to date of Contract.

CERTIFICATE OF ACKNOWLEDGMENT
(For use where Contractor is a corporation)

STATE OF MINNESOTA)
COUNTY OF) SS
)

On this _____ day of _____, 20____, before me personally appeared _____ and _____ to me known who, being by me duly sworn, did say that they are respectively the _____ of _____ and that said instrument was executed in behalf of the corporation by authority of its Board of Directors, and said _____ and _____ acknowledged the instrument to be the free act and deed of said corporation.

(NOTARIAL SEAL)

Notary Public

_____,
Full Name of Surety Company

Home Office Address

Name of Attorney-in-fact

Name of Local Agency

Local Agency

If this bond is executed outside of the State of Minnesota, it must be countersigned on the Performance Bond by a Minnesota resident of the Surety Company.

_____,
Name of Agent affixing countersignature

Address

CERTIFICATE OF ACKNOWLEDGMENT BY PRINCIPAL
(For use where Contractor is individual or partnership)

STATE OF MINNESOTA)
COUNTY OF) SS
)

On this _____ day of _____, 20____, before me personally appeared _____
_____, to me known to be the person _____ described in
and who executed the foregoing bond, and acknowledge that _he_ executed the same as _____
_____ free act and deed.

(NOTARIAL SEAL)

Notary Public

MEMORANDUM: Affix here Power of Attorney and Acknowledgment of Corporate surety.



City of Maple Grove

GOVERNING SPECIFICATIONS

THE CITY OF MAPLE GROVE STANDARD SPECIFICATIONS FOR UTILITY AND STREET CONSTRUCTION 2015, THE 2014 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE 2014 EDITION OF THE "MATERIALS LAB SUPPLEMENTAL SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN EXCEPT AS MODIFIED BY THE CITY OF MAPLE GROVE SPECIFICATIONS FOR THIS PROJECT.

NOTE: ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

SHEET INDEX

NO.	DESCRIPTION
1	2016-06 TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES, SHEET NUMBER, PHASING AND LOCATIONS
3	TABULATION OF QUANTITIES
4	MAPLE GROVE STANDARD PLATES 1 OF 9
5	MAPLE GROVE STANDARD PLATES 2 OF 9
6	MAPLE GROVE STANDARD PLATES 3 OF 9
7	MAPLE GROVE STANDARD PLATES 4 OF 9
8	MAPLE GROVE STANDARD PLATES 5 OF 9
9	MAPLE GROVE STANDARD PLATES 6 OF 9
10	MAPLE GROVE STANDARD PLATES 7 OF 9
11	MAPLE GROVE STANDARD PLATES 8 OF 9
12	MAPLE GROVE STANDARD PLATES 9 OF 9

2016-06 TIMBERWOOD/GLEASON ESTATES REHAB CONSTRUCTION PLANS

13	WATERMAIN OVERVIEW AND SCHEDULE
14	SANITARY OVERVIEW AND CASTING SCHEDULE
15	STORM SEWER OVERVIEW AND CASTING SCHEDULE
16	VINEWOOD LANE N & 90TH AVE N STA: 0+00 - 10+00
17	90TH AVE N & UNDERWOOD LANE N STA: 10+00 - 19+00
18	UNDERWOOD LANE N STA: 0+00 - 4+54
19	90TH PLACE N STA: 0+00 - 11+33
20	SYCAMORE LANE N STA: 0+00 - 10+50
21	SYCAMORE LANE N STA: 10+50 - 21+00
22	ROSEWOOD LANE N STA: 0+00 - 13+00
23	ROSEWOOD LANE N STA: 13+00 - 25+44
24	91ST AVE N STA: 0+00 - 12+65
25	QUINWOOD LANE N (CUL-DE-SAC) STA: 0+00 - 3+64
26	89TH AVE N STA: 0+00 - 9+00
27	90TH PLACE N STA: 0+00 - 6+96
28	QUINWOOD LANE N STA: 0+00 - 11+76
29	STORM SEWER IMPROVEMENT AT 90TH AVE N & UNDERWOOD INTERSECTION

2016-06 FIRE STATION #4 CONSTRUCTION PLANS

30.	FIRE STATION #4 PARKING LOT CONSTRUCTION PLAN
31.	FIRE STATION #4 PARKING LOT STRIPING

2016-06 JEFFERSON HIGHWAY MILL AND OVERLAY

32.	JEFFERSON HIGHWAY CONSTRUCTION PLANS STA: 00+00 - 06+25
33.	JEFFERSON HIGHWAY CONSTRUCTION PLANS STA: 06+25 - 12+50
34.	JEFFERSON HIGHWAY CONSTRUCTION PLANS STA: 12+50 - 18+25
35.	JEFFERSON HIGHWAY CONSTRUCTION PLANS STA: 18+25 - 23+50
36.	JEFFERSON HIGHWAY CONSTRUCTION PLANS STA: 23+50 - 27+50
37.	JEFFERSON HIGHWAY PAVEMENT MARKINGS STA: 00+00 - 06+25
38.	JEFFERSON HIGHWAY PAVEMENT MARKINGS STA: 06+25 - 12+50
39.	JEFFERSON HIGHWAY PAVEMENT MARKINGS STA: 12+50 - 18+25
40.	JEFFERSON HIGHWAY PAVEMENT MARKINGS STA: 18+25 - 23+50
41.	JEFFERSON HIGHWAY PAVEMENT MARKINGS STA: 23+50 - 27+50

2016-06 ARBOR LAKES PARKWAY MILL AND OVERLAY

42.	ARBOR LAKES PKWY 00+00 - 08+00 CONSTRUCTION PLAN
43.	ARBOR LAKES PKWY 08+00 - 15+60 CONSTRUCTION PLAN
44.	ARBOR LAKES PKWY 00+00 - 08+00 STRIPING PLAN
45.	ARBOR LAKES PKWY 08+00 - 15+60 STRIPING PLAN

THIS PLAN CONTAINS 45 SHEETS

LOCAL AGENCY SIGNATURES

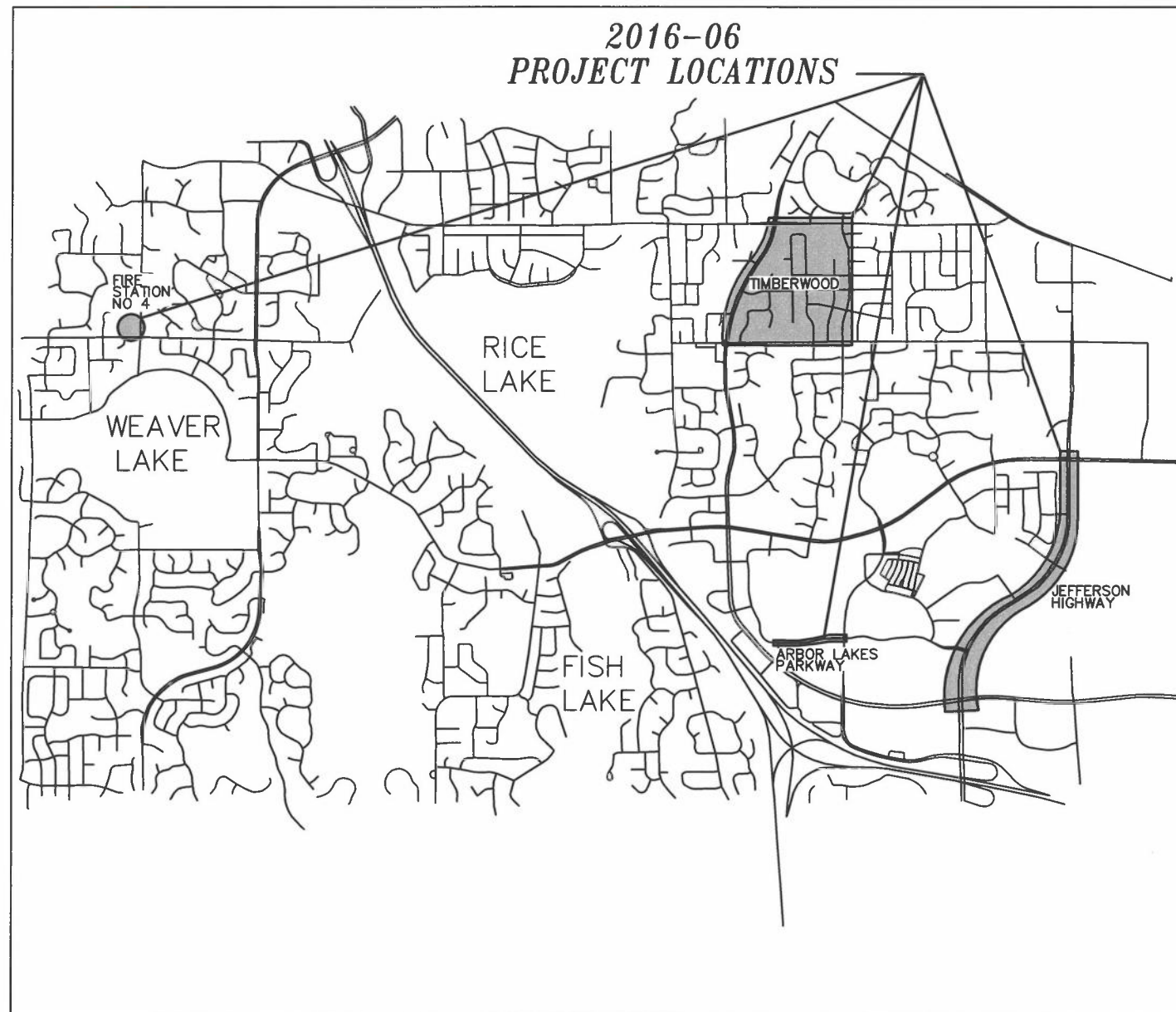
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

SIGNATURE:  LICENSE NO. 42064
APPROVED: ASSISTANT CITY ENGINEER

PRINTED NAME: JUPE HALE DATE: 4/10/2015

MAPLE GROVE PROJECT NO. 2016-06

2016-06 PROJECT LOCATIONS



2016-06 STREET RECONSTRUCTION PROGRAM

CONSTRUCTION PLAN FOR: STREET REHABILITATION PROGRAM, UTILITY IMPROVEMENTS, AND OTHER MISCELLANEOUS IMPROVEMENTS

LOCATED ON: VINEWOOD LANE NORTH, 90TH AVENUE NORTH, 90TH AVENUE NORTH, UNDERWOOD LANE NORTH, 90TH PLACE NORTH, SYCAMORE LANE NORTH, ROSEWOOD LANE NORTH, 91ST PLACE NORTH, 91ST AVENUE NORTH, QUINWOOD LANE NORTH, 89TH PLACE NORTH, ARBOR LAKES ROAD, JEFFERSON HIGHWAY, AND FIRE STATION #4.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

EXCAVATION NOTICE SYSTEM
A CALL TO GOPHER STATE ONE (651-454-0002) IS REQUIRED A MINIMUM OF 48 HOURS PRIOR TO PERFORMING ANY EXCAVATION.

- ⊗ CATCH BASIN
 - ⊗ BEE HIVE CATCH BASIN
 - ⊗ STORM MH, DRAINAGE SUMP DRAIN CLEAN OUT
 - ⊗ SANITARY MH
 - ⊗ SANITARY CLEAN OUT
 - ⊗ HYDRANT
 - ⊗ WATER VALVE
 - ⊗ WATER VALVE MH
 - WSO STOP BOX
 - PIV POST INDICATOR VALVE
 - ⊗ ELECTRIC MH
 - ⊗ UTILITY POLE
 - ⊗ LIGHT POLE
 - ⊗ UTILITY POLE W/LIGHT
 - ✓ GUY WIRE
 - ✓ GUY POLE
 - ⊗ GROUND LIGHT
 - ⊗ TRAFFIC SIGNAL
 - ⊗ HAND HOLE
 - ⊗ TELEPHONE PEDESTAL
 - ⊗ TELEPHONE MH
 - ⊗ TELEVISION PEDESTAL
 - ⊗ GAS VALVE
 - ⊗ MAIL BOX
 - ⊗ RETAINING WALL
 - ⊗ CHAIN LINK FENCE
 - ⊗ WOOD FENCE
 - ⊗ SILT FENCE
 - ⊗ SAWCUT
 - ⊗ STORM SEWER
 - ⊗ SUMP DRAIN
 - ⊗ WATER LINE
 - ⊗ SANITARY SEWER
 - ⊗ GAS LINE
 - ⊗ TELEPHONE UG LINE
 - ⊗ ELECTRIC UG LINE
 - ⊗ OVERHEAD
- PROPOSED=BOLD\SOLID

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

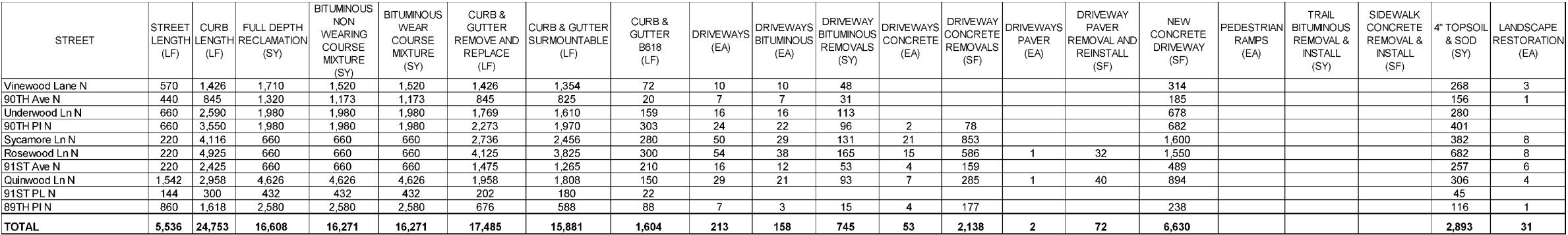
GRADING, BASE AND SURFACE:

- ### REMOVALS:

- ## TURF ESTABLISHMENT:

- ## MISCELLANEOUS

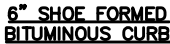
- 1 WHERE SEDIMENT DEPOSITS IN WATERS OF THE STATE THE MATERIAL MUST BE REMOVED WITHIN 7 DAYS.
2 WHENEVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN, IT SHALL MEAN NO DIRECT COMPENSATION WILL BE MADE.
3 ANYWHERE CLEAN ROOT CUTTING IS REQUIRED THE CURB & GUTTER MAY NEED TO BE HAND FORMED TO MINIMIZE THE ROOT CUTTING.



I HEREBY CERTIFY THAT THIS
PLAN WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE
OF MINNESOTA

DATE: 03/24/16
DRAWN: JEFF
CHECKED: JEFF
APPROVED: JGH
CONTR.#ENG 16-01

SHEET 3 OF 45



FORMED BY A SHOE ATTACHED TO
THE PAVER, THEREBY BEING AN
INTEGRAL PART OF THE BITUMINOUS
SURFACE



NOTES:

EXPANSION JOINT MATERIAL SHALL BE CLOSED CELL POLYETHYLENE




MATCH EXISTING CONCRETE OR
BITUMINOUS DRIVEWAY AT 2' FROM
BACK OF CURB EXPANSION JOINT
IF CONCRETE DRIVEWAY OR
UNEVEN BITUMINOUS DRIVEWAY


NOTES:


EXPANSION JOINT MATERIAL SHALL
BE CLOSED CELL POLYETHYLENE



MAXIMUM DRIVEWAY WIDTH: 34'


 City of
Maple Grove
 LAST REVISION
 NOVEMBER 2014


 City of
Maple Grove
 LAST REVISION
 JANUARY 2016


 City of
Maple Grove
 LAST REVISION
 NOVEMBER 2014

[illegible]

STANDARD PLATES

City of
Maple Grove
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM

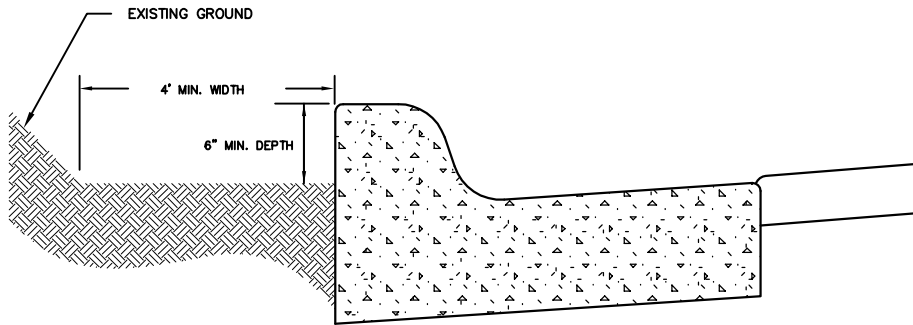
I HEREBY CERTIFY THAT THIS
PLAN WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE
OF MINNESOTA

DATE: 03/24/06 LIC. NO. 42064

DRAWN: JRB
CHECKED: JEF
APPROVED: JGH

DATE: 03/24/06
CONTR.#ENG 16-016

SHEET 4 OF 45



NOTES:

BOULEVARD CUTTING IS REQUIRED ON ALL CONSTRUCTION JOBS IN THE CITY OF MAPLE GROVE WHERE THE CONTRACTOR WILL BE DISTURBING THE EXISTING TERRAIN AND MORE THEN 3 DAYS UNTIL FINAL STABILIZATION.

CONTRACTOR IS RESPONSIBLE FOR CLEANING OUT ANY SEDIMENT FROM THE BOULEVARD CUT AREA. THIS MAYBE MULTIPLE TIMES AS DIRECTED BY THE ENGINEER.



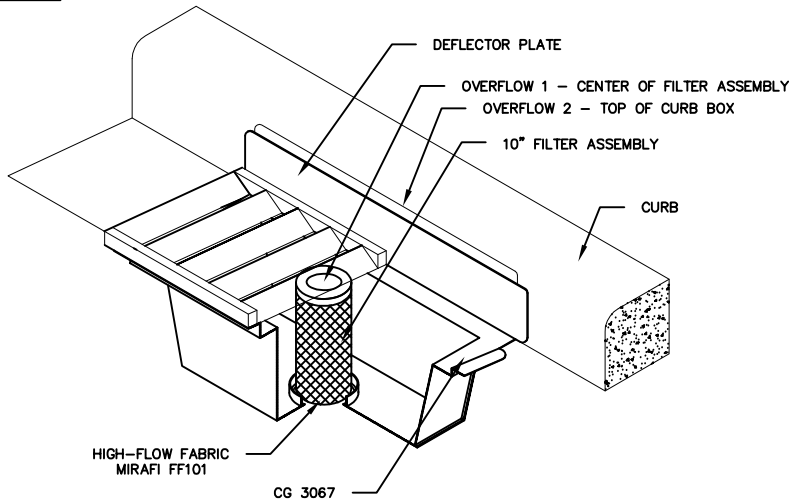
BOULEVARD CUT

CITY OF MAPLE GROVE ENGINEERING
& PUBLIC WORKS DEPARTMENTS

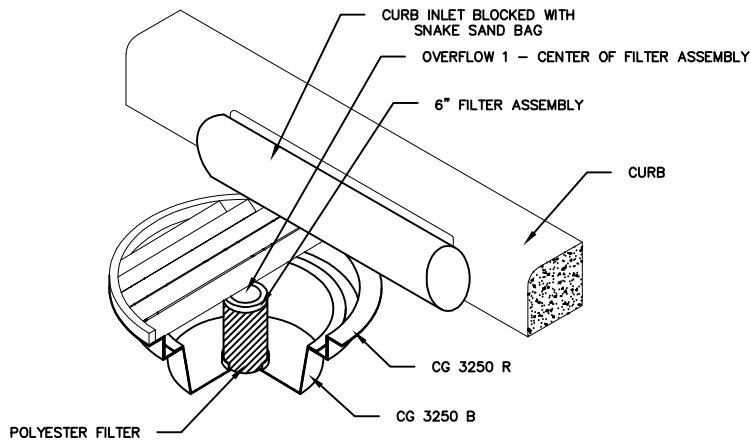
STANDARD
PLATE #
EROS-18

LAST REVISION
NOVEMBER 2014

WIMCO ROAD DRAIN OR
APPROVED EQUAL



WIMCO ROAD DRAIN OR
APPROVED EQUAL

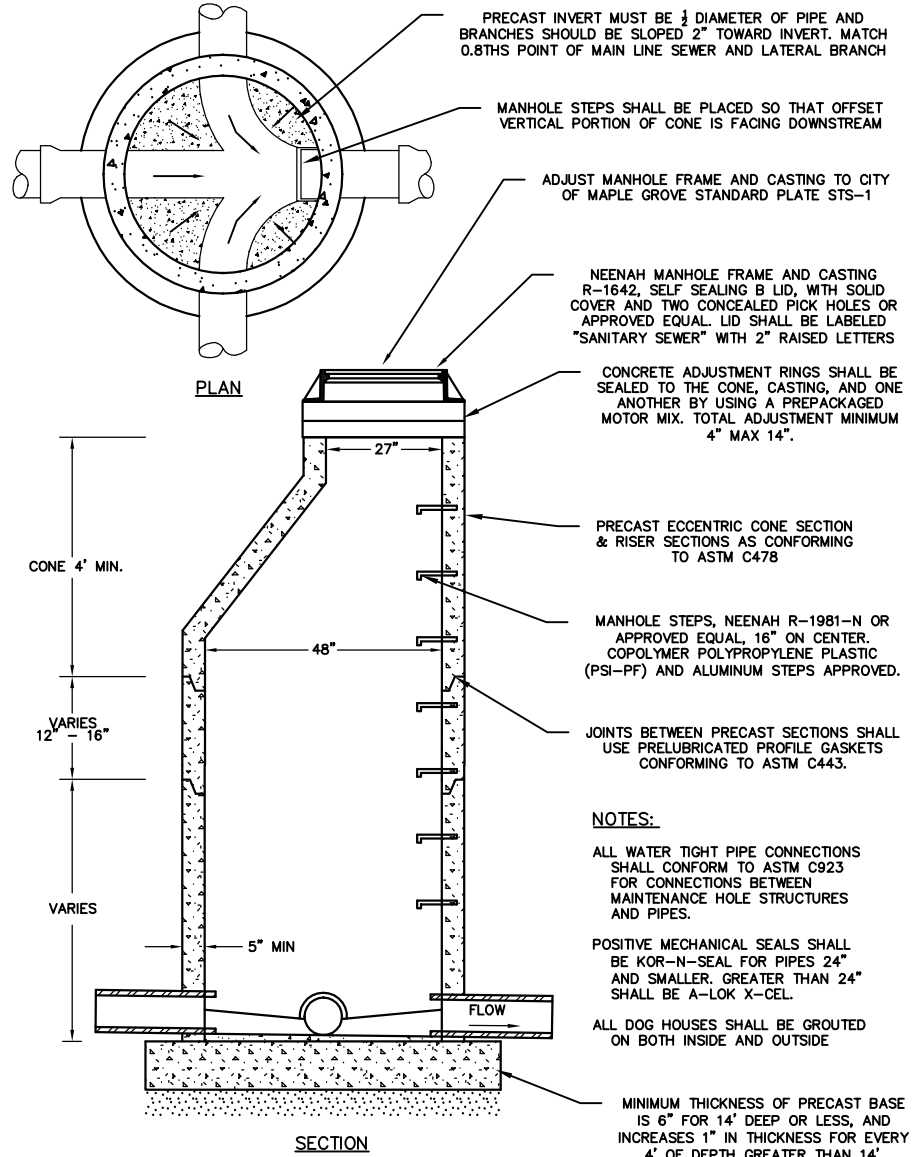


CURB INLET PROTECTIONS

CITY OF MAPLE GROVE ENGINEERING
& PUBLIC WORKS DEPARTMENTS

STANDARD
PLATE #
EROS-19

LAST REVISION
NOVEMBER 2014



STANDARD SANITARY MANHOLE

CITY OF MAPLE GROVE ENGINEERING
& PUBLIC WORKS DEPARTMENTS

STANDARD
PLATE #
SS-4

LAST REVISION
NOVEMBER 2014

NO.	DATE	BY	REMARKS

STANDARD PLATES



**2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM**

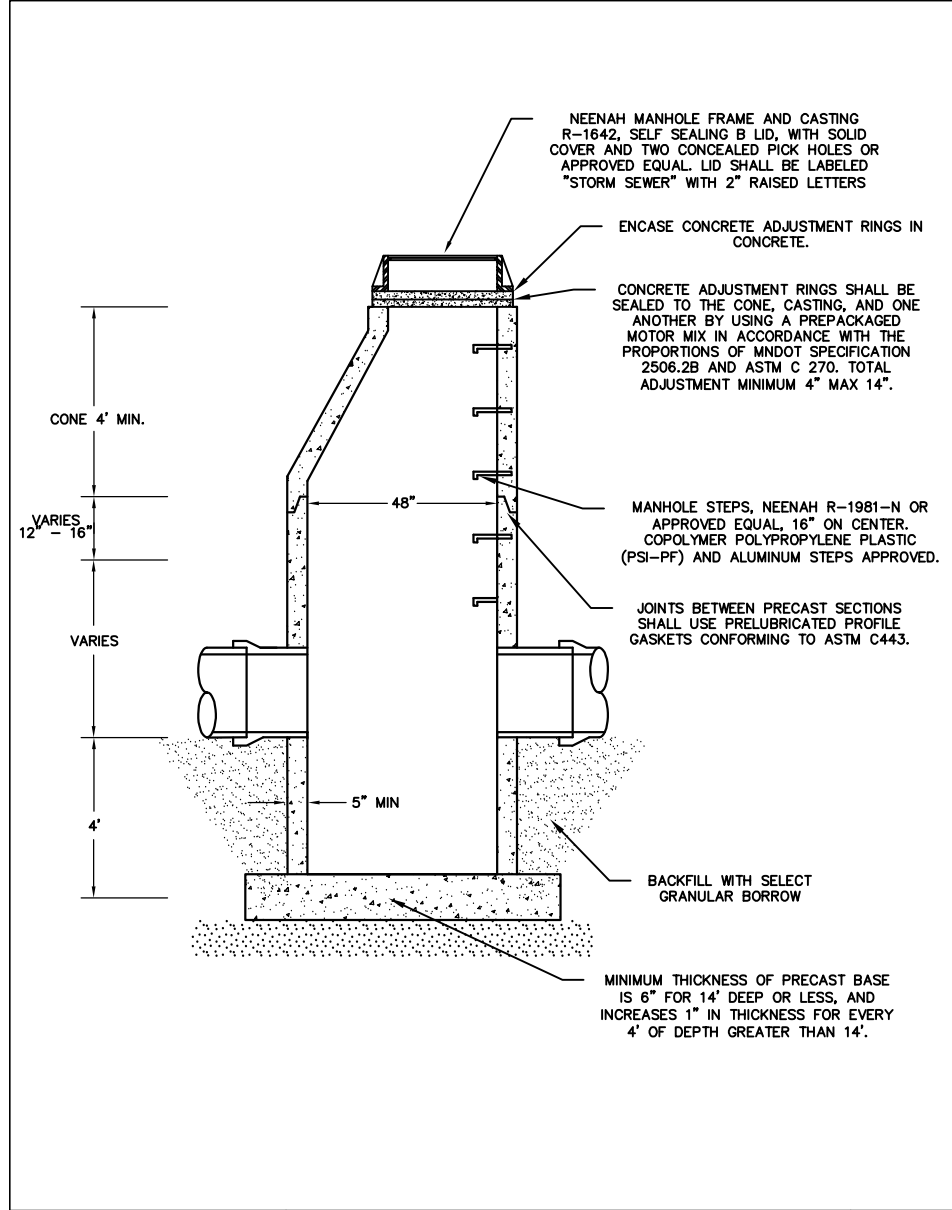
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

[Signature]

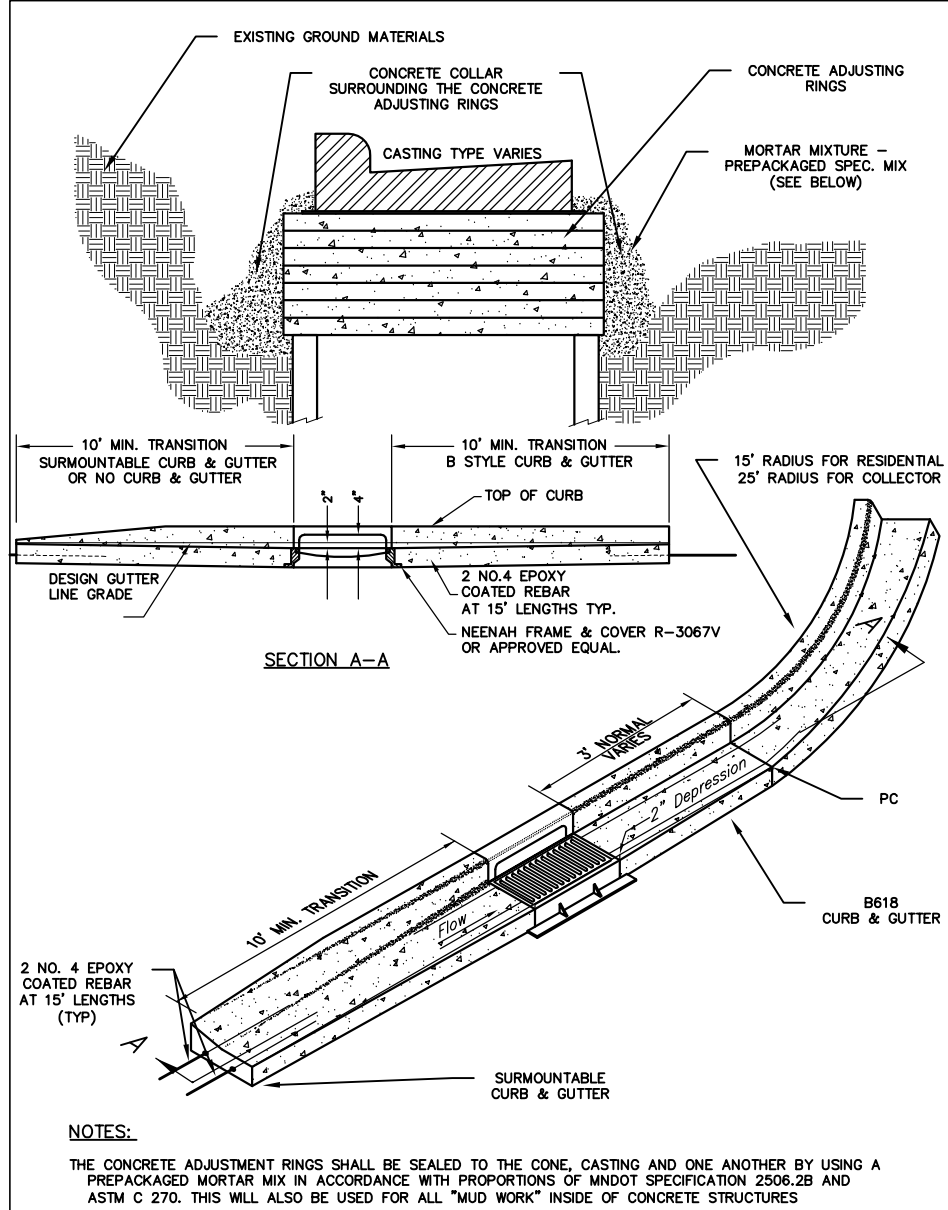
DATE: 03/24/16

UC. No. 42064

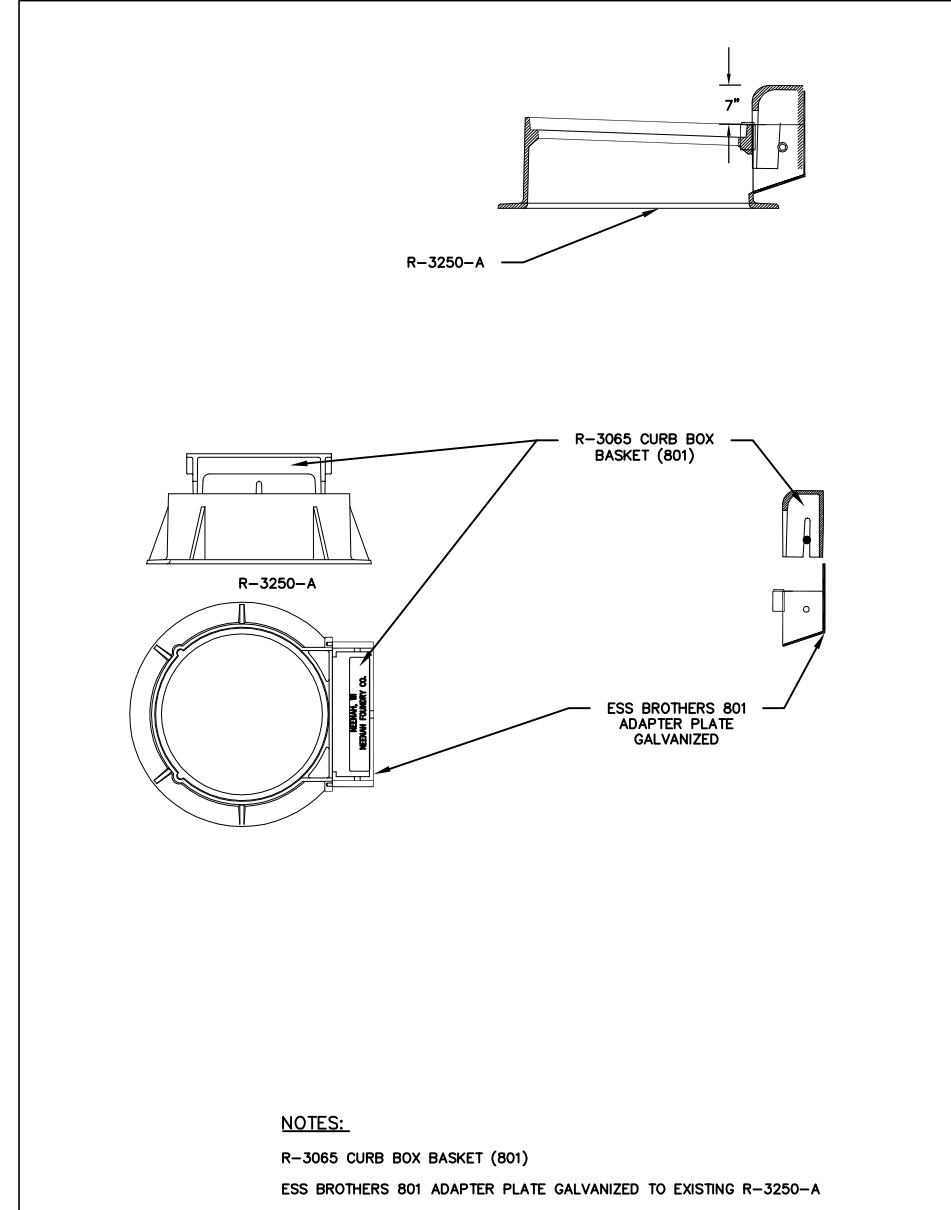
DRAWN: JEF
CHECKED: JEF
APPROVED: JGH
DATE: 03/24/16
CONTR.#ENG 16-06
SHEET 5 of 45



<p>City of Maple Grove</p> <p>LAST REVISION NOVEMBER 2014</p>	STANDARD MANHOLE WITH SUMP	STANDARD PLATE # STS-3
	CITY OF MAPLE GROVE ENGINEERING & PUBLIC WORKS DEPARTMENTS	



<p>City of Maple Grove</p> <p>LAST REVISION NOVEMBER 2014</p>	CB ADJUSTMENT AND CB PLACEMENT IN CONCRETE CURB & GUTTER	STANDARD PLATE # STS-4
	CITY OF MAPLE GROVE ENGINEERING & PUBLIC WORKS DEPARTMENTS	



<p>City of Maple Grove</p> <p>LAST REVISION NOVEMBER 2014</p>	CATCH BASIN CASTING R-3250-A CURB BOX ADAPTER	STANDARD PLATE # STS-6
	CITY OF MAPLE GROVE ENGINEERING & PUBLIC WORKS DEPARTMENTS	

NO.	DATE	BY	REMARKS

STANDARD PLATES

City of Maple Grove

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

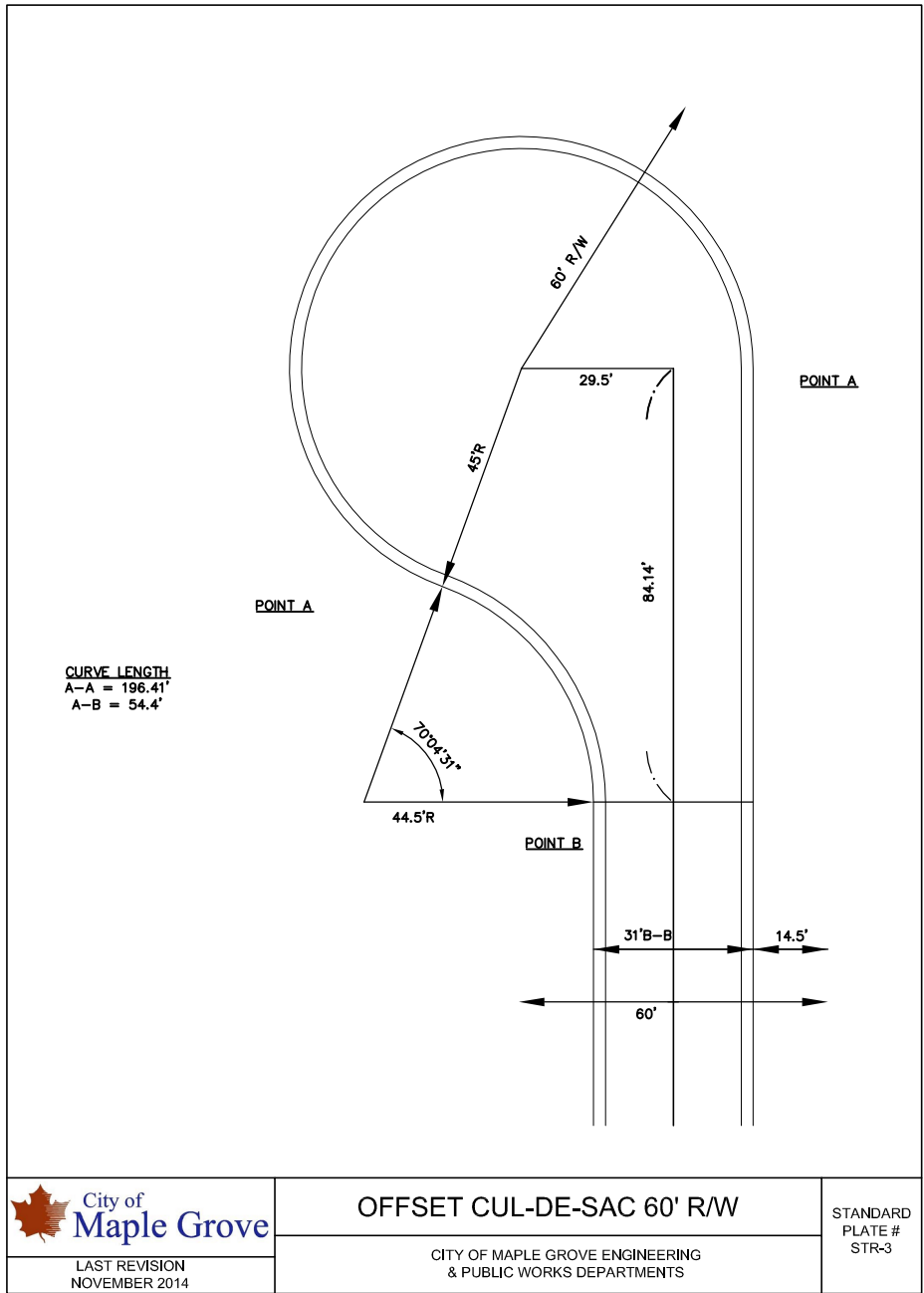
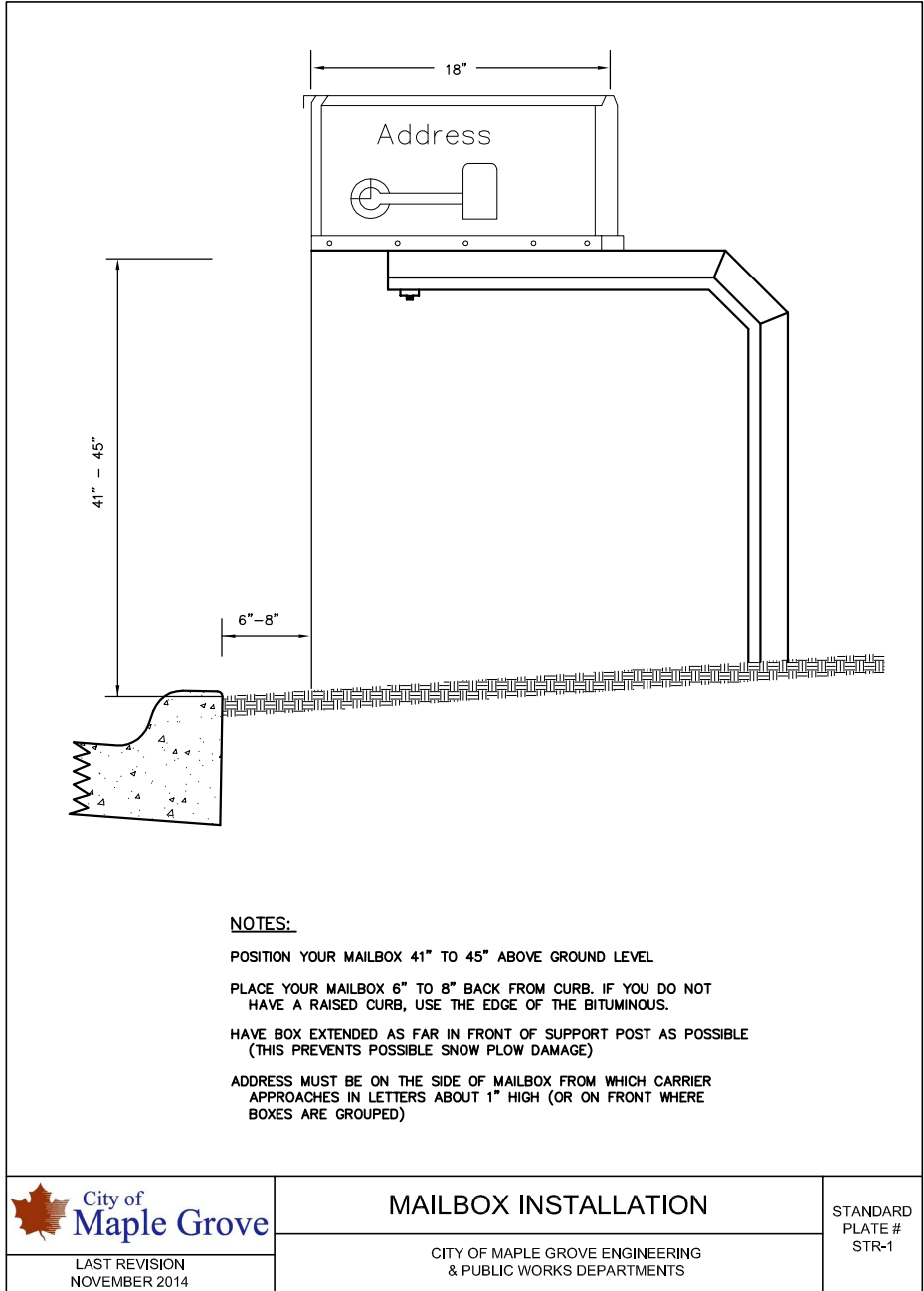
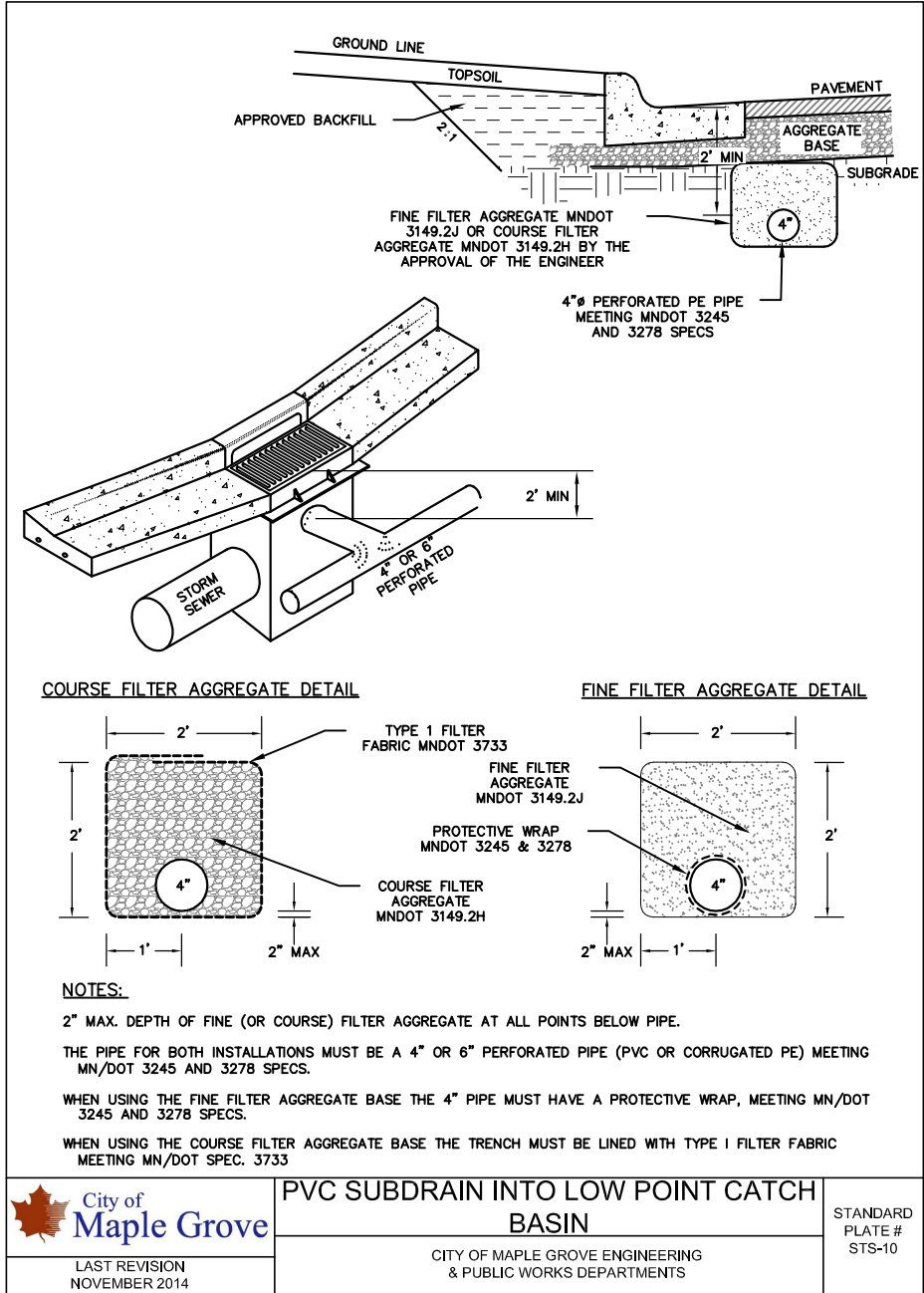
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

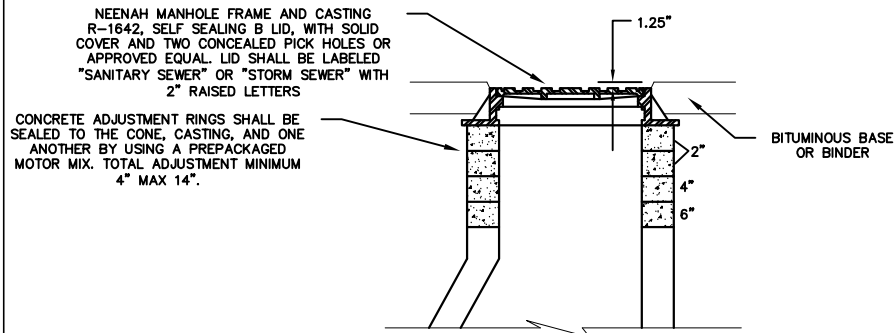
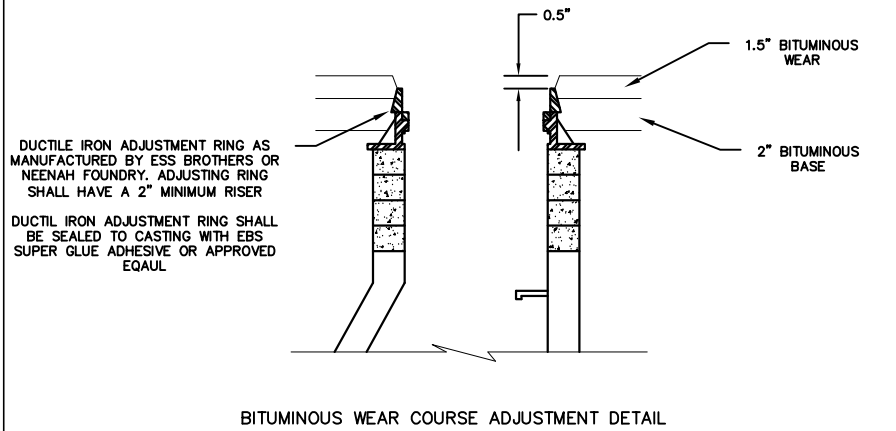
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 03/24/16


UC. No. 42064

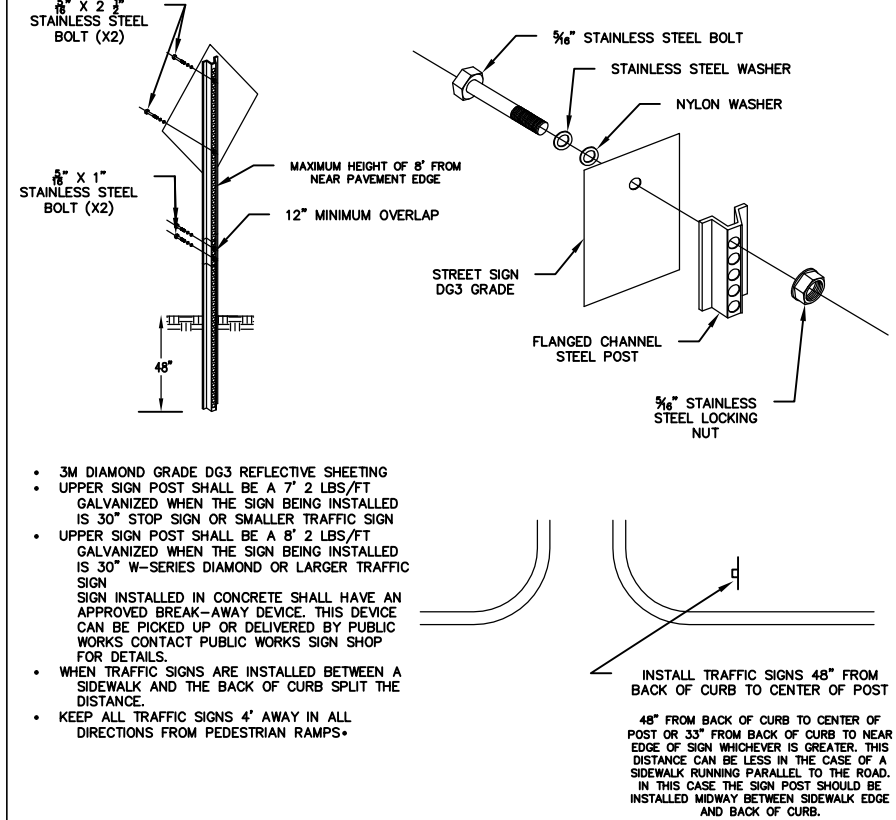
DRAWN: JEF
CHECKED: JEF
APPROVED: JGH
DATE: 03/24/16
CONTR.#ENG 16-06
SHEET 7 of 45





NOTES:
2-PIECE OR CAST IRON ADJUSTING RINGS ARE NOT ALLOWED

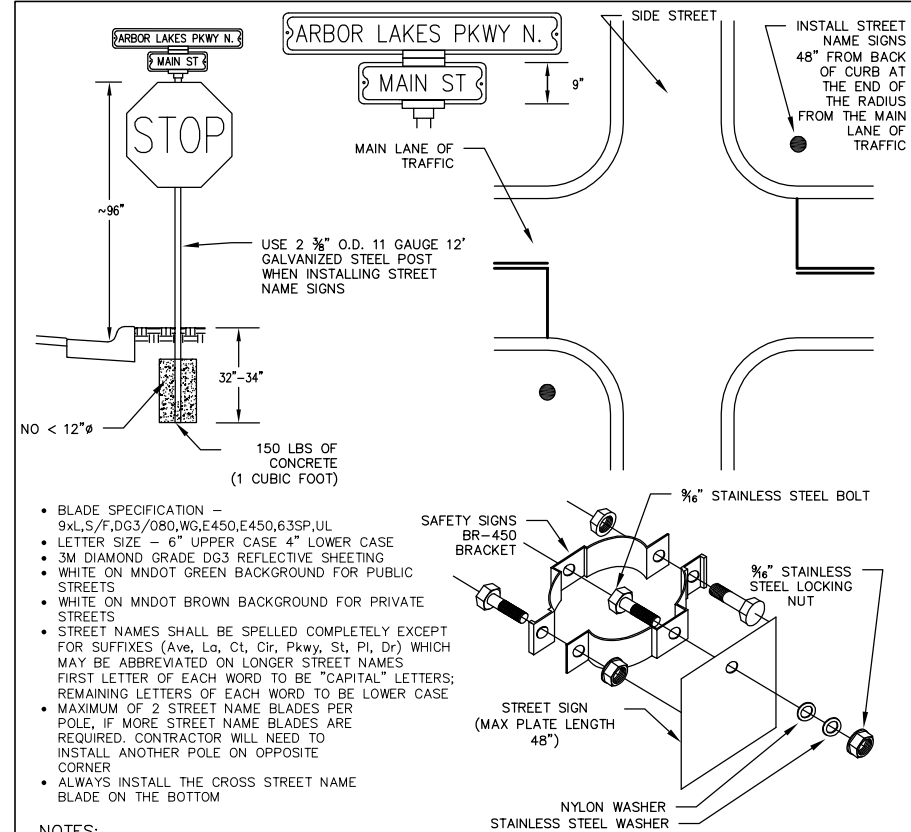
 <div>City of Maple Grove</div>	MANHOLE CASTING ADJUSTMENT DETAIL	STANDARD PLATE # STR-9
	CITY OF MAPLE GROVE ENGINEERING & PUBLIC WORKS DEPARTMENTS	
LAST REVISION NOVEMBER 2014		



- 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING
- UPPER SIGN POST SHALL BE A 7" 2 LBS/FT GALVANIZED WHEN THE SIGN BEING INSTALLED IS 30" STOP SIGN OR SMALLER TRAFFIC SIGN
- UPPER SIGN POST SHALL BE A 8" 2 LBS/FT GALVANIZED WHEN THE SIGN BEING INSTALLED IS 30" W-SERIES DIAMOND OR LARGER TRAFFIC SIGN
- SIGN INSTALLED IN CONCRETE SHALL HAVE AN APPROVED BREAK-AWAY DEVICE. THIS DEVICE CAN BE PICKED UP OR DELIVERED BY PUBLIC WORKS CONTACT PUBLIC WORKS SIGN SHOP FOR DETAILS.
- WHEN TRAFFIC SIGNS ARE INSTALLED BETWEEN A SIDEWALK AND THE BACK OF CURB SPLIT THE DISTANCE.
- KEEP ALL TRAFFIC SIGNS 4' AWAY IN ALL DIRECTIONS FROM PEDESTRIAN RAMPS.

NOTES:
ALL REGULATORY AND STREET SIGNS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. TEMPORARY SIGNAGE MAY BE REQUIRED AND IS CONSIDERED INCIDENTAL.
ALL IN-PLACE SIGNS NOT SHOWN IN PLANS SHALL BE MAINTAINED IN-PLACE THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
LOCATION OF ALL PROPOSED SIGNS ARE APPROXIMATE AND SHALL BE LOCATED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
SIGN PANELS-REFLECTIVE SHEETING WILL BE DG3 MATERIAL.
ALL TYPE C SIGN PANELS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE SIGN, SIGN POST, MOUNTING HARDWARE, SIGN AND LABOR FOR THE INSTALLATION OF ALL TYPE C SIGNS.
A SIGN PLAN SHOWING SIGN COLORS, SIZES AND LETTERING MUST BE SUBMITTED TO THE CITY OF MAPLE GROVE ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO SIGN INSTALLATION.

 <div>City of Maple Grove</div>	TRAFFIC SIGN INSTALLATION	STANDARD PLATE # SGN-1
	CITY OF MAPLE GROVE ENGINEERING & PUBLIC WORKS DEPARTMENTS	
LAST REVISION NOVEMBER 2014		



- BLADE SPECIFICATION - 9xL,S/F,DG3/080,WG,E450,E450,63SP,UL
- LETTER SIZE - 6" UPPER CASE 4" LOWER CASE
- 3M DIAMOND GRADE DG3 REFLECTIVE SHEETING
- WHITE ON MNDOT GREEN BACKGROUND FOR PUBLIC STREETS
- WHITE ON MNDOT BROWN BACKGROUND FOR PRIVATE STREETS
- STREET NAMES SHALL BE SPELLED COMPLETELY EXCEPT FOR SUFFIXES (Ave, Lg, Ct, Cir, Pkwy, St, Pl, Dr) WHICH MAY BE ABBREVIATED ON LONGER STREET NAMES FIRST LETTER OF EACH WORD TO BE "CAPITAL" LETTERS; REMAINING LETTERS OF EACH WORD TO BE LOWER CASE
- MAXIMUM OF 2 STREET NAME BLADES PER POLE, IF MORE STREET NAME BLADES ARE REQUIRED, CONTRACTOR WILL NEED TO INSTALL ANOTHER POLE ON OPPOSITE CORNER
- ALWAYS INSTALL THE CROSS STREET NAME BLADE ON THE BOTTOM

NOTES:
ALL REGULATORY AND STREET SIGNS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. TEMPORARY SIGNAGE MAY BE REQUIRED AND IS CONSIDERED INCIDENTAL.
ALL IN-PLACE SIGNS NOT SHOWN IN PLANS SHALL BE MAINTAINED IN-PLACE THROUGHOUT CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
LOCATION OF ALL PROPOSED SIGNS ARE APPROXIMATE AND SHALL BE LOCATED BY THE ENGINEER IN THE FIELD PRIOR TO INSTALLATION.
SIGN PANELS-REFLECTIVE SHEETING WILL BE DG3 MATERIAL.
ALL TYPE C SIGN PANELS SHALL BE SUPPLIED AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE THE SIGN, SIGN POST, MOUNTING HARDWARE, SIGN AND LABOR FOR THE INSTALLATION OF ALL TYPE C SIGNS.
WHEN CONTRACTOR IS INSTALLING TYPE C SIGNS THEY MUST USE A BR-450 DOUBLE-SIDED SIGN BRACKET FROM SAFETY SIGNS (OR APPROVED EQUAL)
A SIGN PLAN SHOWING SIGN COLORS, SIZES AND LETTERING MUST BE SUBMITTED TO THE CITY OF MAPLE GROVE ENGINEERING DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO SIGN INSTALLATION.

	STREET NAME BLADE INSTALLATION W/ TRAFFIC SIGN		STANDARD PLATE # SGN-2
	CITY OF MAPLE GROVE ENGINEERING & PUBLIC WORKS DEPARTMENTS		
LAST REVISION NOVEMBER 2014			

NO.	DATE	BY	REMARKS

STANDARD PLATES


12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 03/24/16

DRAWN: JEF
CHECKED: JEF
APPROVED: JGH

DATE: 03/24/16
CONTR.#ENG 16-06
SHEET 10 of 45

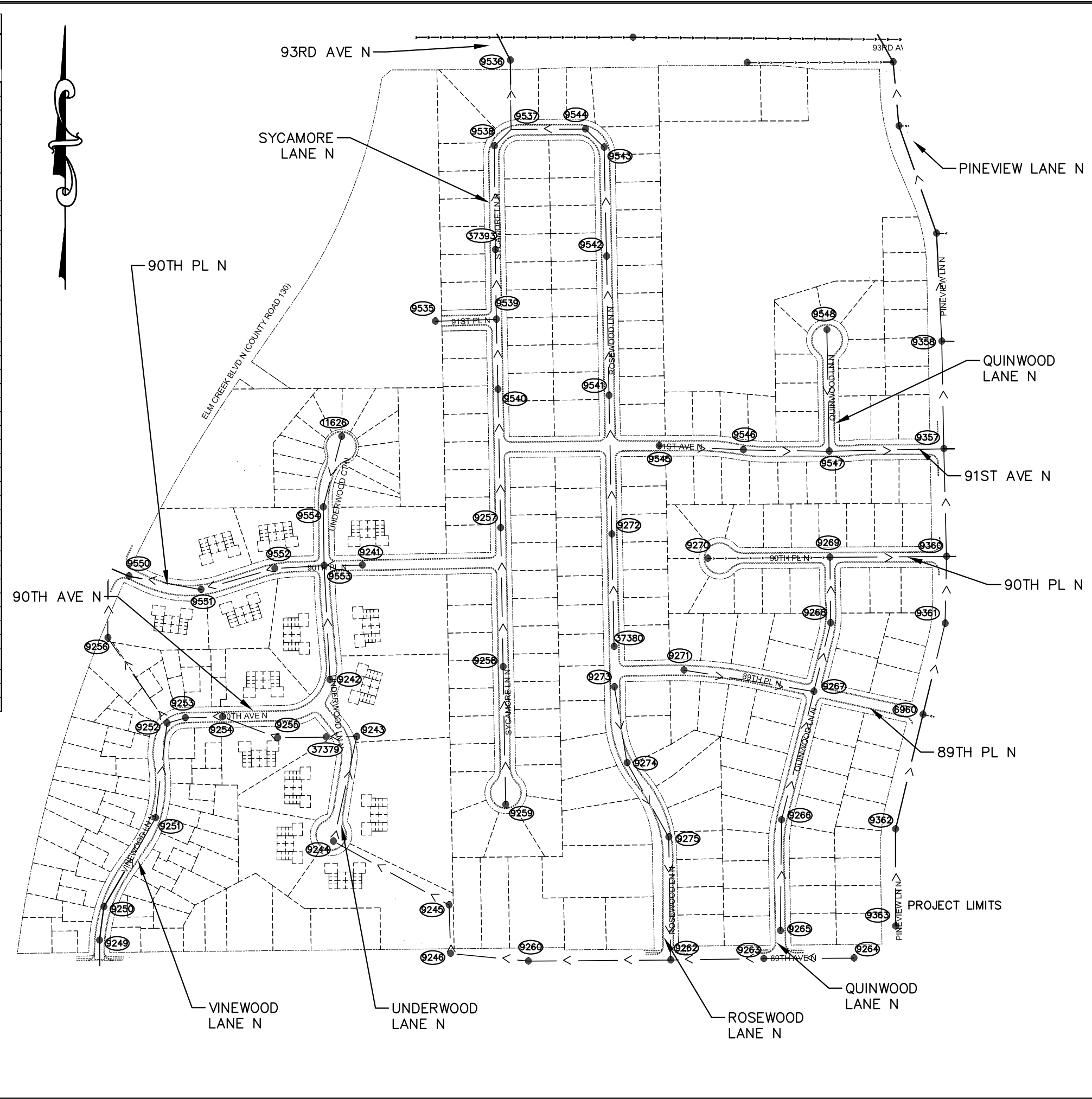
2016-06 SANITARY SEWER MH & CASTING ADJUSTMENT SCHEDULE								
	STRUCTURE ID #	STREET	SALVAGE CASTING ASSEMBLY	REMOVE CASTING ASSEMBLY	INSTALL CASTING ASSEMBLY	CASTING ASSEMBLY R-172 (in inches)	EXISTING RINGS (in inches)	RECONSTRUCT DEPTH & COMMENTS
Phase I	ssmh11626	Underwood LN N	x		X		16	
Phase I	ssmh9241	90TH PL N	x		X		7	
Phase I	ssmh9242	Underwood LN N	x		X		5	
Phase I	ssmh9244	Underwood LN N	x		X		12	
Phase I	ssmh9249	Vinewood Lane N	x		X		12	
Phase I	ssmh9250	Vinewood Lane N	x		X		12	
Phase I	ssmh9251	Vinewood Lane N	x		X		12	
Phase I	ssmh9252	Vinewood Lane N	x		X		23	
Phase I	ssmh9253	90TH Ave N	x		X		13	
Phase I	ssmh9254	90TH Ave N	x		X		7	
Phase I	ssmh9550	90TH PL N	x		X		12	
Phase I	ssmh9551	90TH PL N	x		X		8	
Phase I	ssmh9552	90TH PL N	x		X		6	
Phase I	ssmh9553	90TH PL N	x		X		10	
Phase I	ssmh9554	Underwood LN N	x		X		9	
Phase II	ssmh37380	Rosewood Ln N		x		x	11	
Phase II	ssmh37393	Sycamore Ln N	x		X		12	
Phase II	ssmh9257	Sycamore Ln N	x		X		11	
Phase II	ssmh9258	Sycamore Ln N	x		X		12	
Phase II	ssmh9259	Sycamore Ln N	x		X		9	
Phase II	ssmh9265	Quinwood Ln N	x		X		12	
Phase II	ssmh9266	Quinwood Ln N	x		X		9	
Phase II	ssmh9267	Quinwood Ln N	x		X		10	
Phase II	ssmh9268	Quinwood Ln N	x		X		6	
Phase II	ssmh9269	90 TH PL N	x		X		5	
Phase II	ssmh9270	90TH PL N	x		X		6	
Phase II	ssmh9271	89TH PL N	x		X		14	
Phase II	ssmh9272	Rosewood Ln N		x		x	12	
Phase II	ssmh9273	Rosewood Ln N	x		X		8	
Phase II	ssmh9274	Rosewood Ln N	x		X		6	
Phase II	ssmh9275	Rosewood Ln N	x		X		11	
Phase II	ssmh9535	91ST PL N	x		X		5	
Phase II	ssmh9537	Sycamore Ln N	x		X		6	
Phase II	ssmh9538	Sycamore Ln N	x		X		5	
Phase II	ssmh9539	Sycamore Ln N	x		X		9	
Phase II	ssmh9540	Sycamore Ln N	x		X		9	
Phase II	ssmh9541	Rosewood Ln N		x		x	11	
Phase II	ssmh9542	Rosewood Ln N	x		X		8	
Phase II	ssmh9543	Rosewood Ln N	x		X		8	
Phase II	ssmh9544	Rosewood Ln N	x		X		4	
Phase II	ssmh9545	91ST Ave N	x		X		12	Paved over, did not survey
Phase II	ssmh9546	91ST Ave N		x		x	15	
Phase II	ssmh9547	91ST Ave N	x		X		15	
Phase II	ssmh9548	Quinwood Ln N	x		X		24	

LEGEND

SANITARY MANHOLE

5555

MANHOLE NUMBER



SANITARY SEWER	
City of Maple Grove	
12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350	
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM	
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA LIC. NO. 42064 DATE: 03/24/16	
DRAWN: JRB	CHECKED: JEF
APPROVED: JGH	DATE: 03/24/16
CONTR.#ENG 16-06	
SHEET 14 of 45	

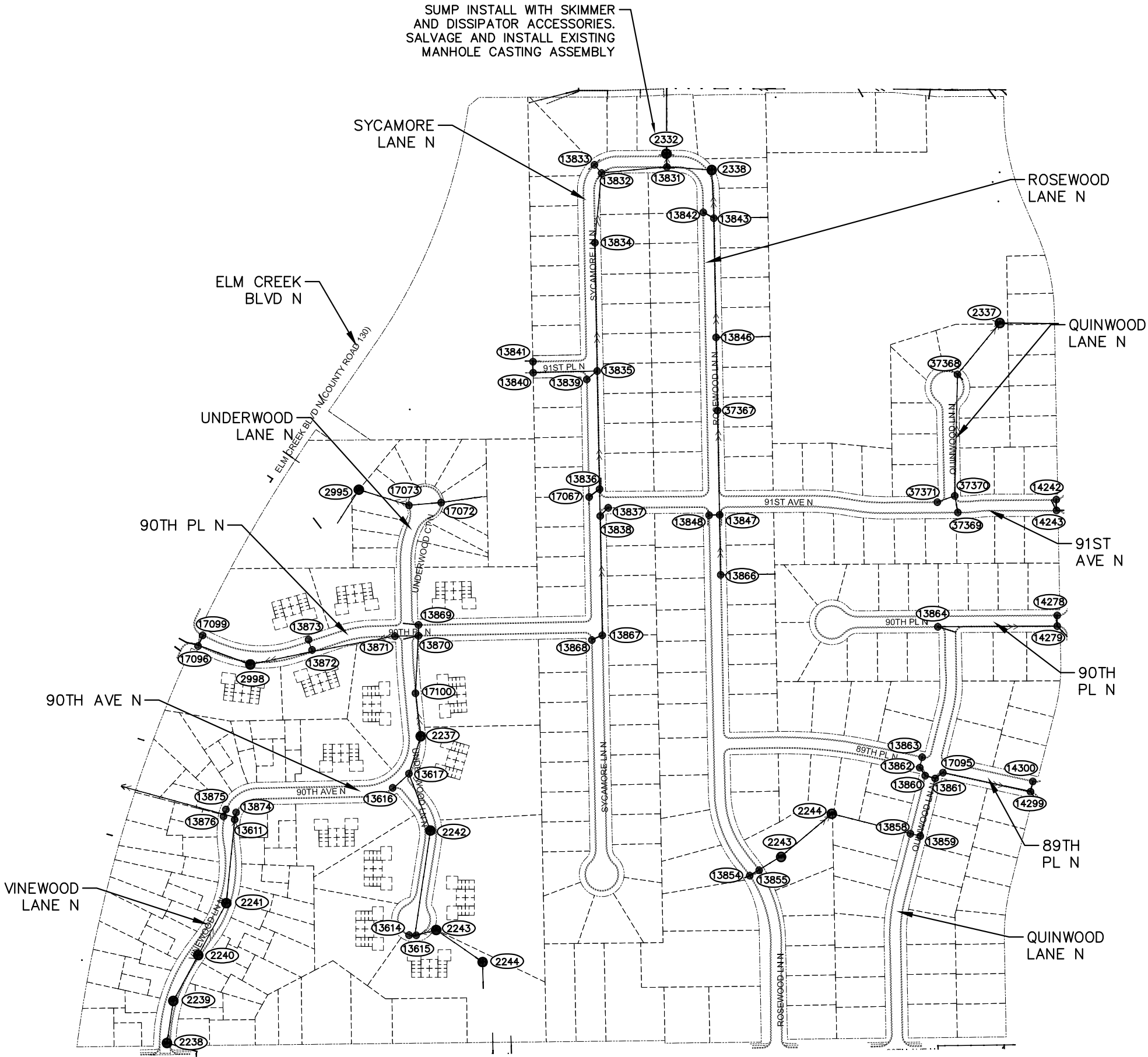
STORM SEWER CASTING & MANHOLE SCHEDULE

PHASE #	STRUCTURE #	STREET	SALVAGE & INSTALL CASTING ASSEMBLY	REMOVE & NEW CASTING ASSEMBLY	INSTALL CASTING ASSEMBLY	EXISTING RINGS DEPTH (INCHES)
1	13611	VINEWOOD LN N	X		X	13
1	13614	UNDERWOOD LN N	X		X	0
1	13615	UNDERWOOD LN N	X		X	0
1	13616	90TH AVE N		X		14
1	13617	UNDERWOOD LN N	X		X	0
1	13869	90TH PL N	X		X	17
1	13870	90TH PL N	X		X	1
1	13871	90TH PL N	X		X	1
1	13872	90TH PL N	X		X	4
1	13873	90TH PL N	X		X	11
1	13874	VINEWOOD LN N		X		11
1	13875	VINEWOOD LN N		X		6
1	13876	VINEWOOD LN N	X		X	11
1	17072	UNDERWOOD LN N	X		X	13
1	17073	UNDERWOOD LN N	X		X	10
1	17096	90TH PL N	X		X	6
1	17099	90TH PL N		X		17
1	17100	UNDERWOOD LN N	X		X	2
2	13831	ROSEWOOD LN N	X		X	2
2	13832	SYCAMORE LN N	X		X	6
2	13833	SYCAMORE LN N	X		X	2
2	13834	SYCAMORE LN N	X		X	4
2	13835	SYCAMORE LN N	X		X	6
2	13836	SYCAMORE LN N	X		X	9
2	13837	91ST AVE N	X		X	20
2	13838	SYCAMORE LN N	X		X	10
2	13839	SYCAMORE LN N	X		X	11
2	13840	91ST PL N	X		X	12
2	13841	91ST PL N	X		X	10
2	13842	ROSEWOOD LN N	X		X	4
2	13843	ROSEWOOD LN N		X		8
2	13846	ROSEWOOD LN N	X		X	18
2	13847	ROSEWOOD LN N	X		X	6
2	13848	ROSEWOOD LN N	X		X	7
2	13854	ROSEWOOD LN N	X		X	2
2	13855	ROSEWOOD LN N	X		X	2
2	13858	QUINWOOD LN N		X		8
2	13859	QUINWOOD LN N	X		X	6
2	13860	QUINWOOD LN N	X		X	9
2	13861	QUINWOOD LN N	X		X	8
2	13862	89TH PL N	X		X	8
2	13863	89TH PL N	X		X	4
2	13863	89TH PL N	X		X	12
2	13864	90TH PL N	X		X	8
2	13866	ROSEWOOD LN N	X		X	8
2	13867	SYCAMORE LN N	X		X	5
2	13868	SYCAMORE LN N	X		X	7
2	14242	91ST AVE N	X		X	10
2	14243	91ST AVE N	X		X	2
2	14278	90TH PL N	X		X	10
2	14279	90TH PL N	X		X	8
2	14299	89TH PL N	X		X	18
2	14300	89TH PL N	X		X	10
2	17067	SYCAMORE LN N	X		X	5
2	17095	QUINWOOD LN N	X		X	12
2	37367	ROSEWOOD LN N	X		X	6
2	37368	QUINWOOD LN N	X		X	4
2	37369	QUINWOOD LN N	X		X	2
2	37370	QUINWOOD LN N	X		X	7
2	37371	QUINWOOD LN N	X		X	12

LEGEND	
●	STORM MANHOLE
●	CATCH BASIN
5555	STORM MANHOLE NUMBER
1111	CATCH BASIN NUMBER

ALL CATCH BASINS MUST HAVE INLET PROTECTION DEVICE INSTALLED DURING CONSTRUCTION

*ALL MANHOLE CASTINGS WILL BE A SALVAGE AND INSTALL LINE ITEM. NO MAHOLE LIDS/CASTINGS ARE SCHEDULED FOR REPLACEMENT. ONLY SELECT CATCH BASIN CASTINGS ARE SCHEDULED FOR REPLACEMENT.



NO. DATE BY

REMARKS

REVISIONS

City of Maple Grove

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6550

2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

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LIC. NO. 42064
DATE: 03/24/16

DRAWN: JRB
CHECKED: JEF
APPROVED: JGH
DATE: 03/24/16
CONTR.#ENG 16-06
SHEET 15 of 45

- GENERAL NOTES:
1. SUBGRADE TO BE ROLL-TESTED PRIOR TO BASE COURSE INSTALLATION AND PAVING OPERATIONS.
 2. EXISTING DRIVEWAY REMOVAL LIMITS WILL BE MARKED IN FIELD BY ENGINEER. UNLESS OTHERWISE MARKED, STANDARD REMOVAL LIMITS ARE BACK OF NEW CONCRETE APRON.
 3. ALL DRIVEWAYS TO HAVE INTEGRAL CONCRETE APRON POURED WITH CURB AND GUTTER, UNLESS NOTED OTHERWISE.
 4. SPOT CURB REMOVALS TO BE DETERMINED IN THE FIELD AND MARKED BY CITY STAFF.
 5. CONTRACTOR WILL NOT CONSTRUCT PAST RIGHT OF WAY LINE WITHOUT CITY AND OWNERS WRITTEN PERMISSION.

LEGEND

REMOVE BITUMINOUS PAVEMENT

(A)

6" CONCRETE DRIVEWAY APRON

LOT LINES

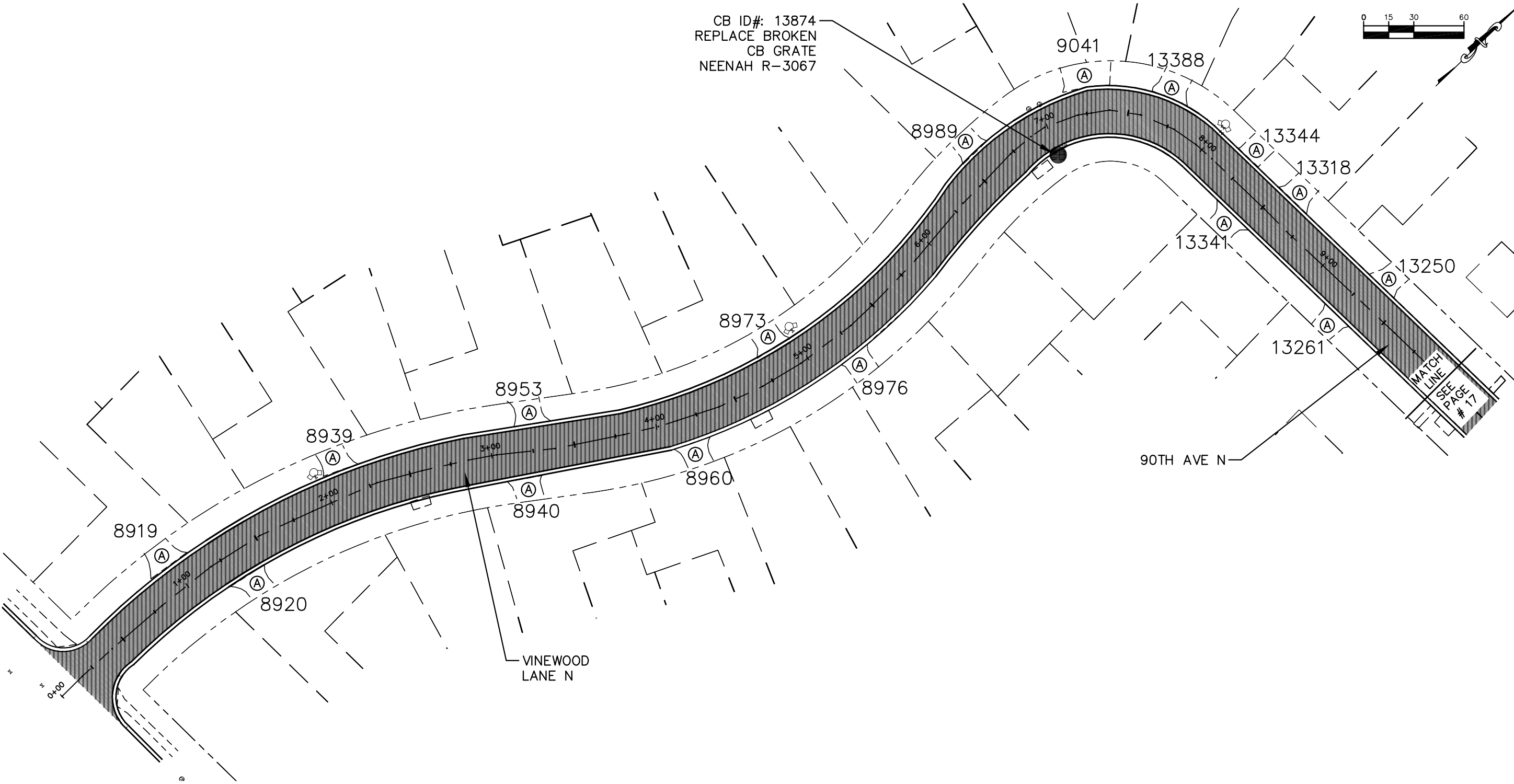
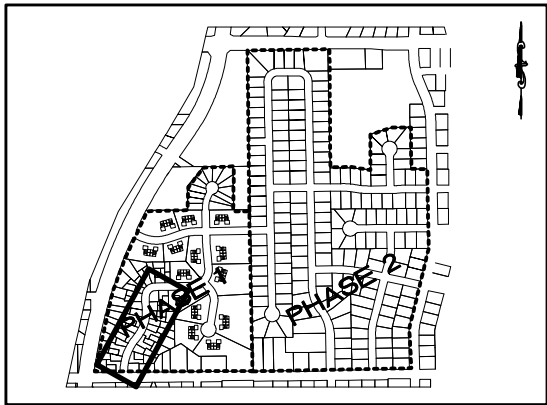
RIGHT OF WAY

=====

EXISTING CURB & GUTTER

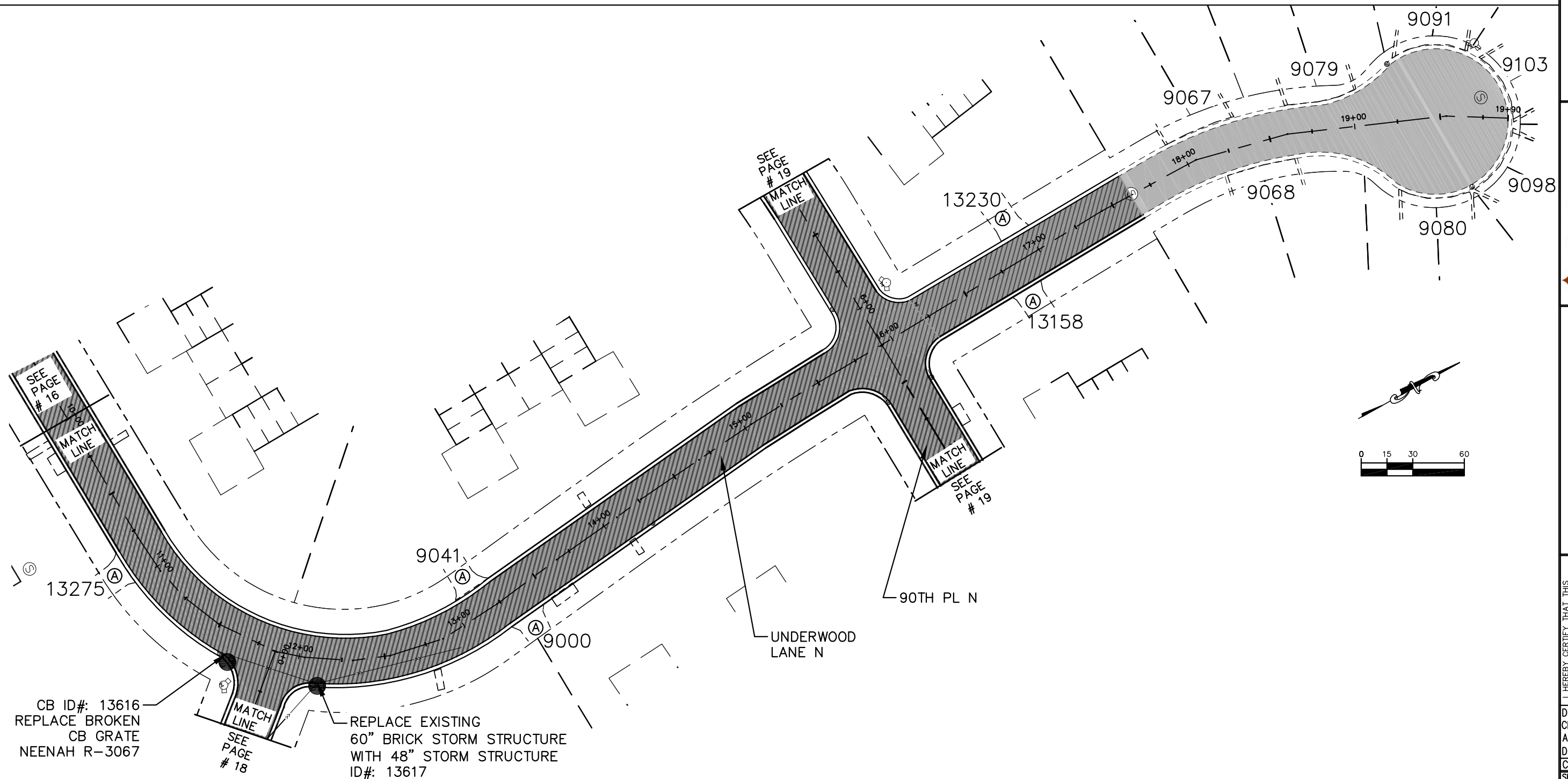
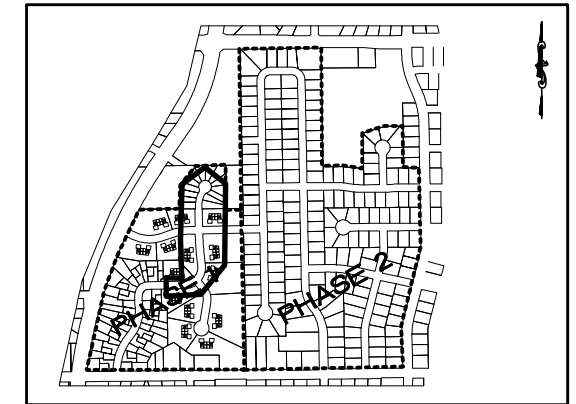
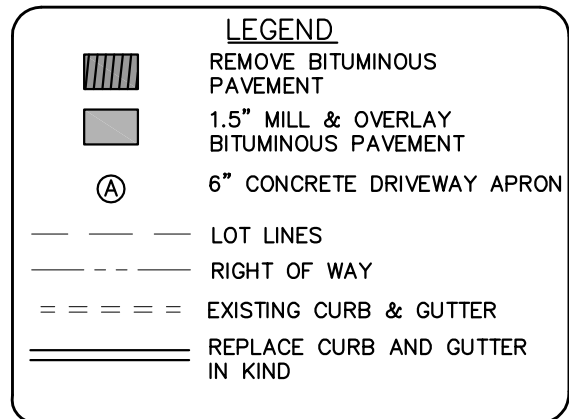
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REPLACE CURB AND GUTTER IN KIND



VINWOOD LN N & 90TH AVE N		REMARKS
12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350		REVISIONS
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM		DATE: 03/24/16
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DRAWN: JRB CHECKED: JEF APPROVED: JGH		CONTR.#ENG 16-06
SHEET 16 OF 45		

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3. ALL DRIVEWAYS TO HAVE INTEGRAL CONCRETE APRON POURED WITH CURB AND GUTTER, UNLESS NOTED OTHERWISE.
4. DRIVEWAYS IN THE MILL AND OVERLAY AREA WILL NOT GET APRONS INSTALLED.
5. SPOT CURB REMOVALS TO BE DETERMINED IN THE FIELD AND MARKED BY CITY STAFF.
6. CONTRACTOR WILL NOT CONSTRUCT PAST RIGHT OF WAY LINE WITHOUT CITY AND OWNERS WRITTEN PERMISSION.



90TH AVE N &
UNDERWOOD LN N

 City of
Maple Grove

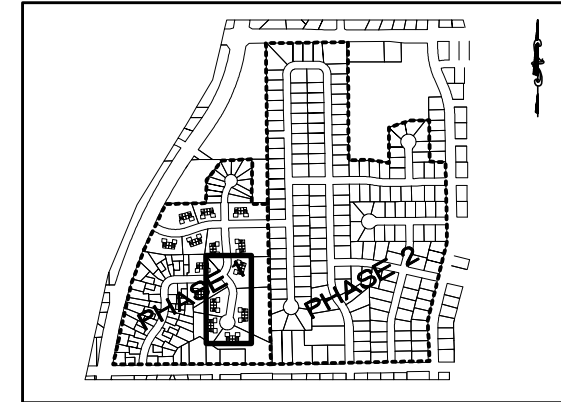
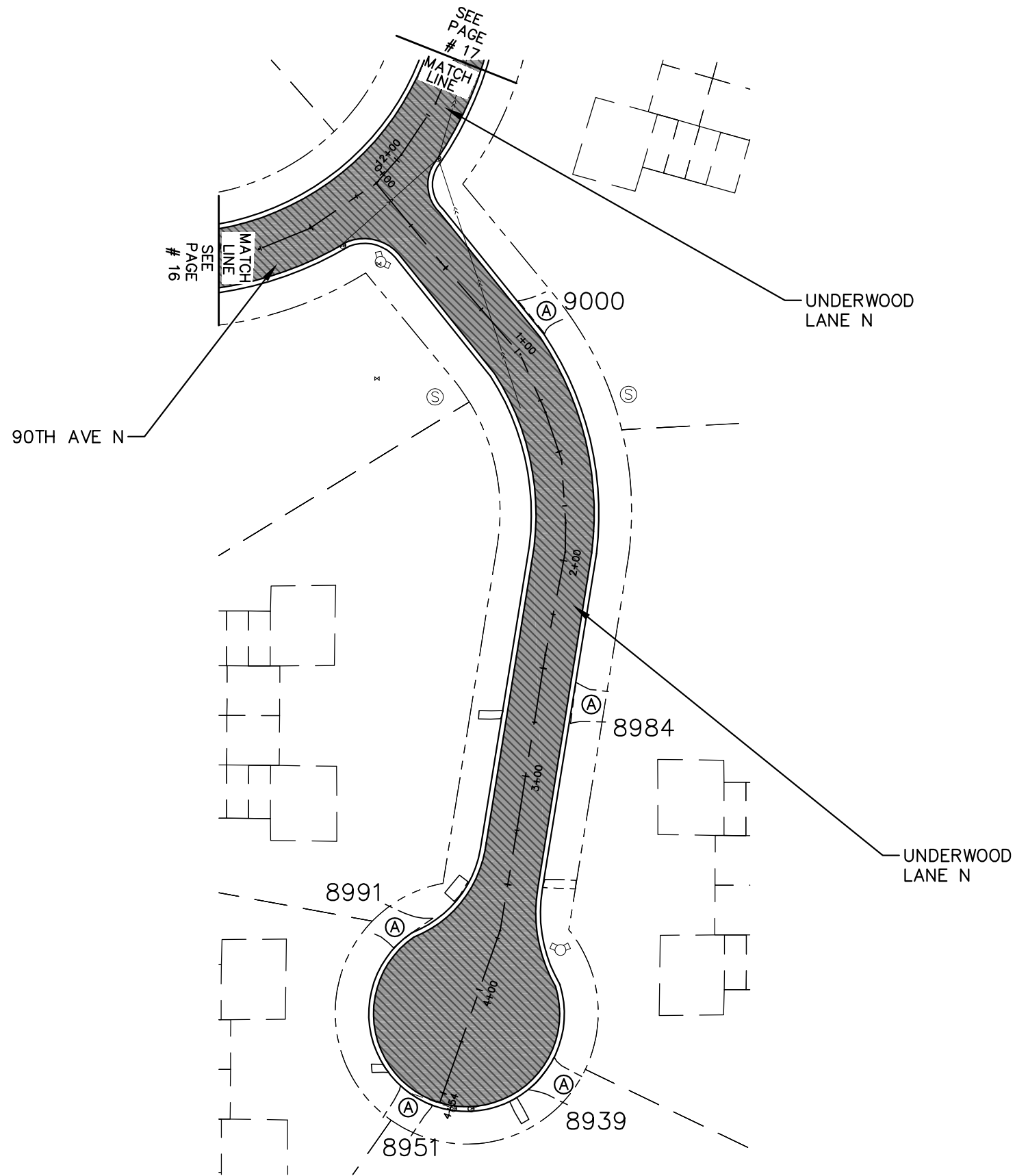
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM

DATE: 7/11/16 LIC. NO. 42064

DRAWN: JRB
CHECKED: JEF
APPROVED: JCH
DATE: 03/24/16
CONTR.# ENG 16-06

SHEET 17 OF 45



LEGEND

REMOVE BITUMINOUS PAVEMENT

6" CONCRETE DRIVEWAY APRON

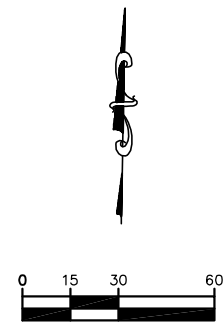
LOT LINES

RIGHT OF WAY

EXISTING CURB & GUTTER

REPLACE CURB AND GUTTER IN KIND

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12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
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2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

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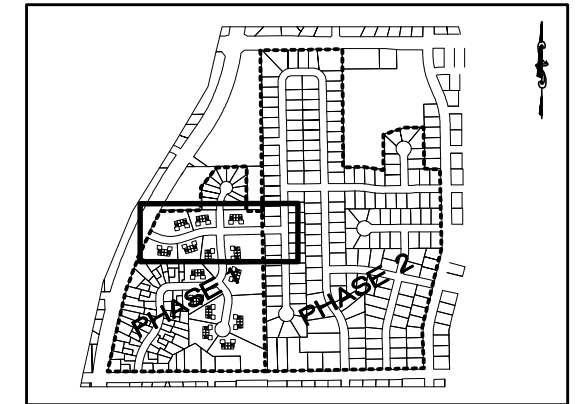
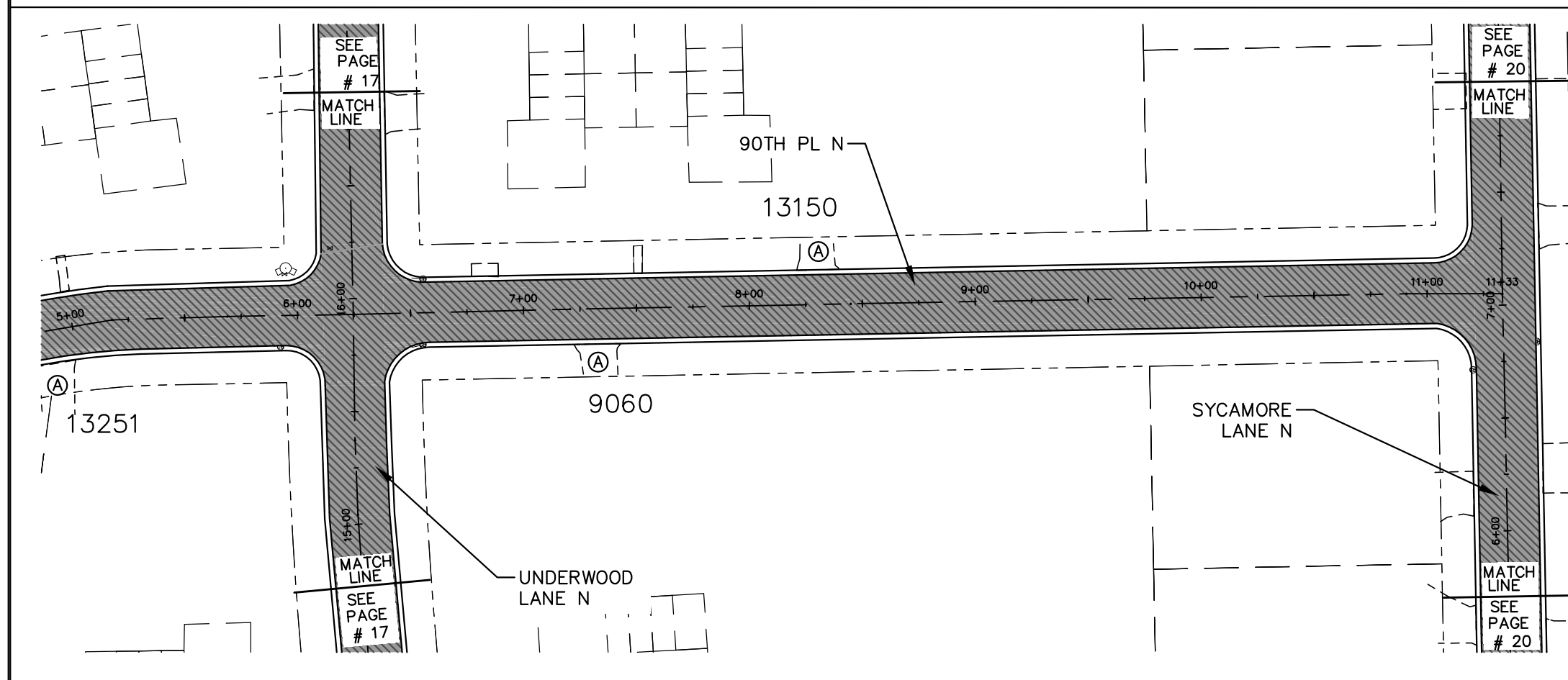
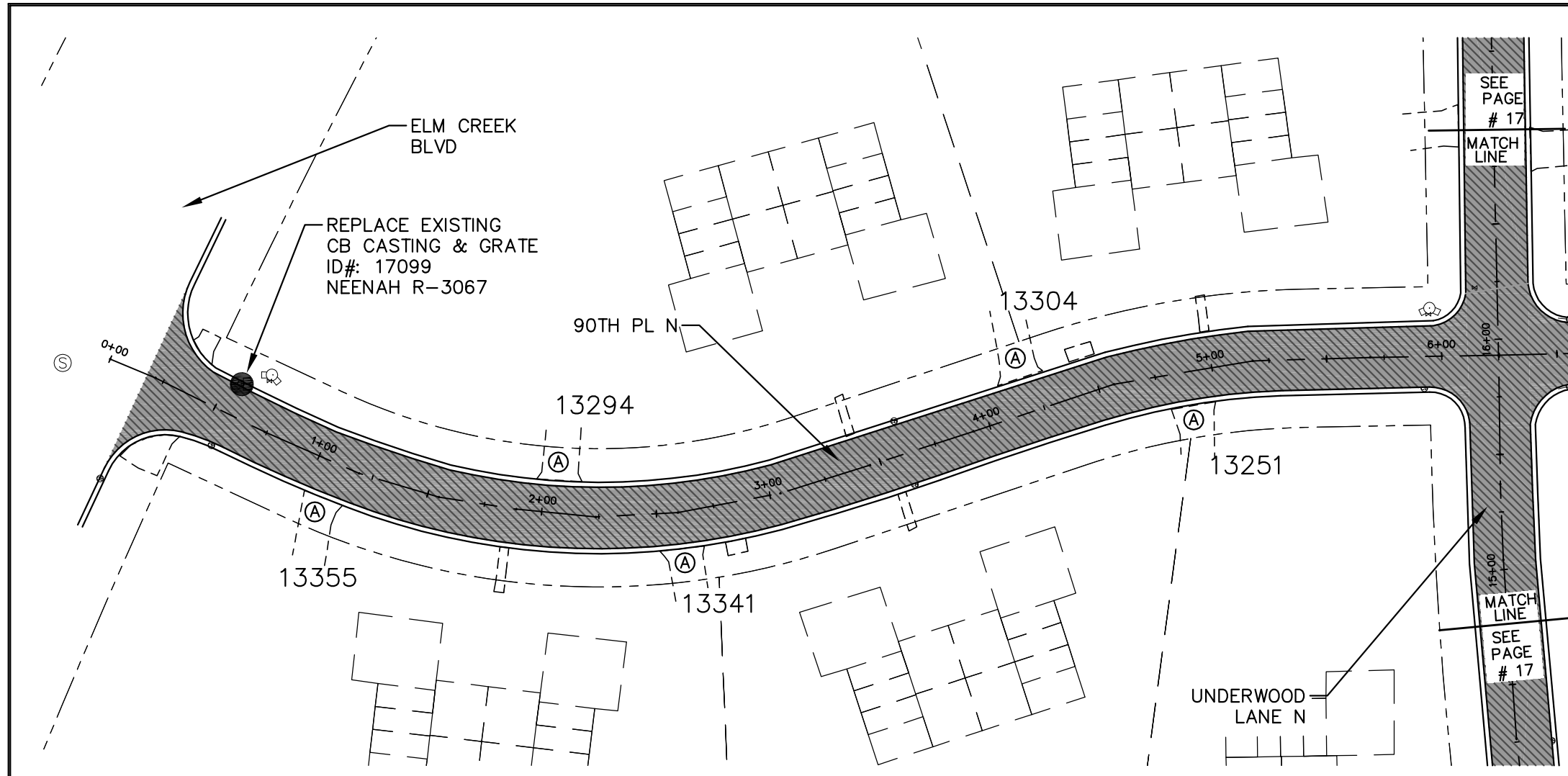
DATE: 03/24/16

DRAWN: JRB
CHECKED: JEF
APPROVED: JGH

CONTR.#ENG 16-06
SHEET 18 of 45

UNDERWOOD LN N

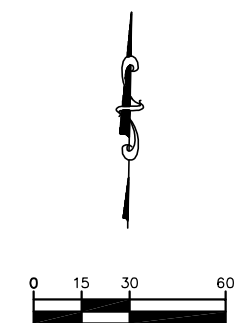
NO.	DATE	BY	REMARKS



LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

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90TH PL N

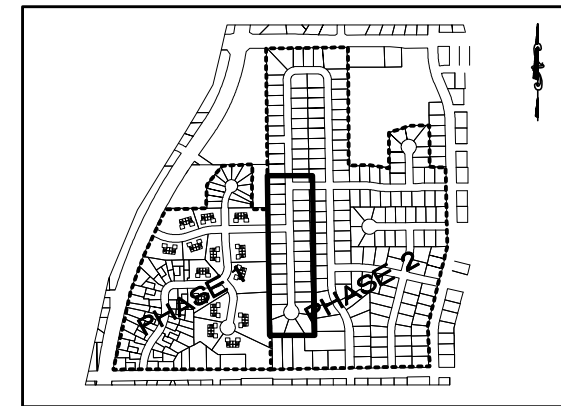
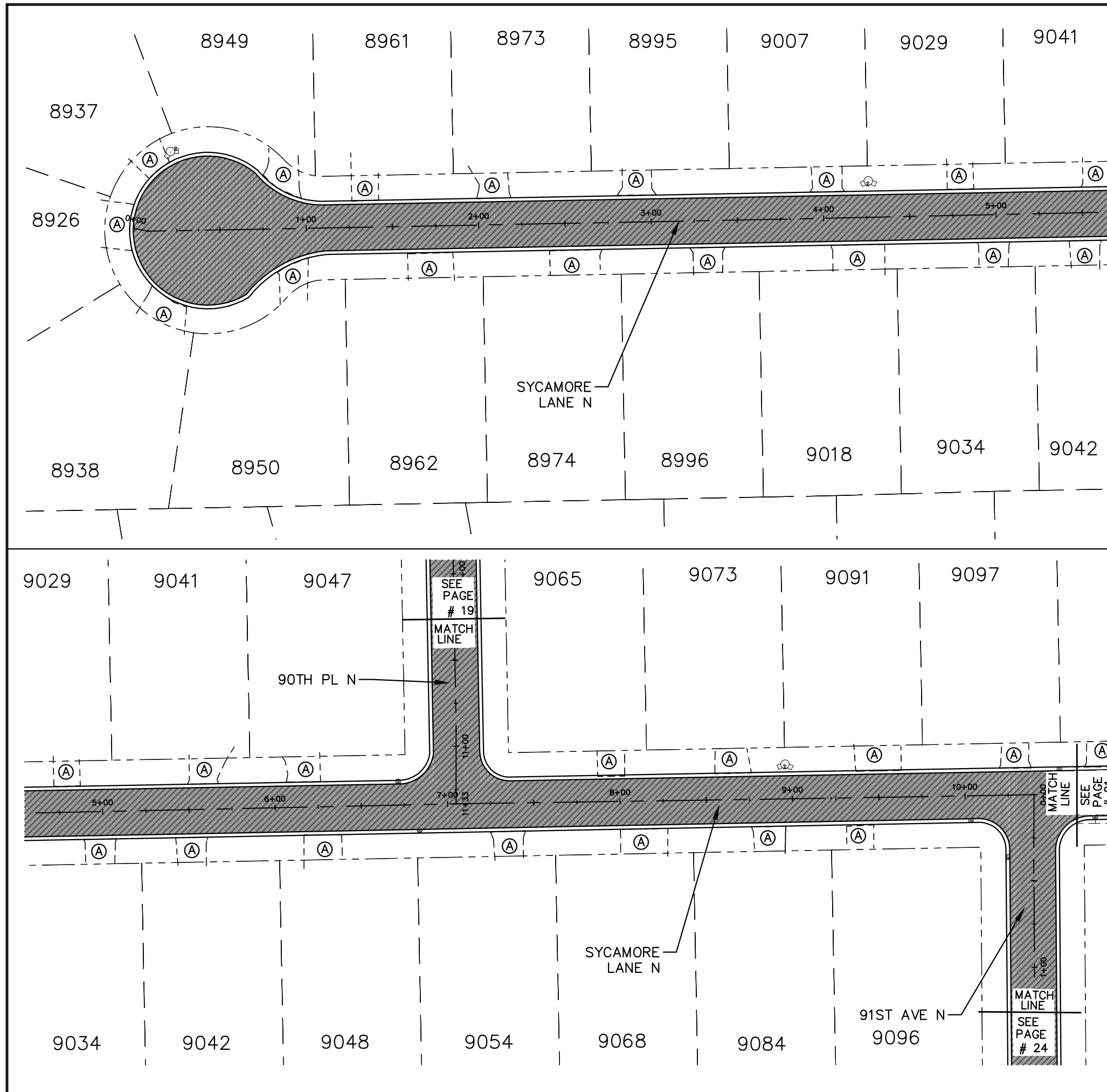
City of Maple Grove
 12800 ARBOR LAKES PARKWAY
 MAPLE GROVE, MN 55311
 PHONE: (763) 494-6350

2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

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[Signature]
 DATE: 03/24/16
 LIC. NO. 42064

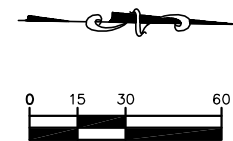
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 APPROVED: JGH
 DATE: 03/24/16
 CONTR.#ENG 16-06
 SHEET **19 of 45**



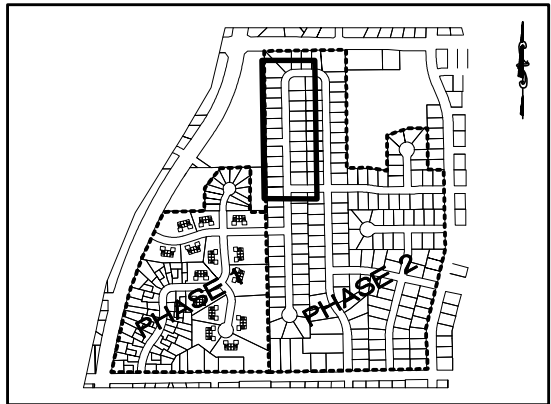
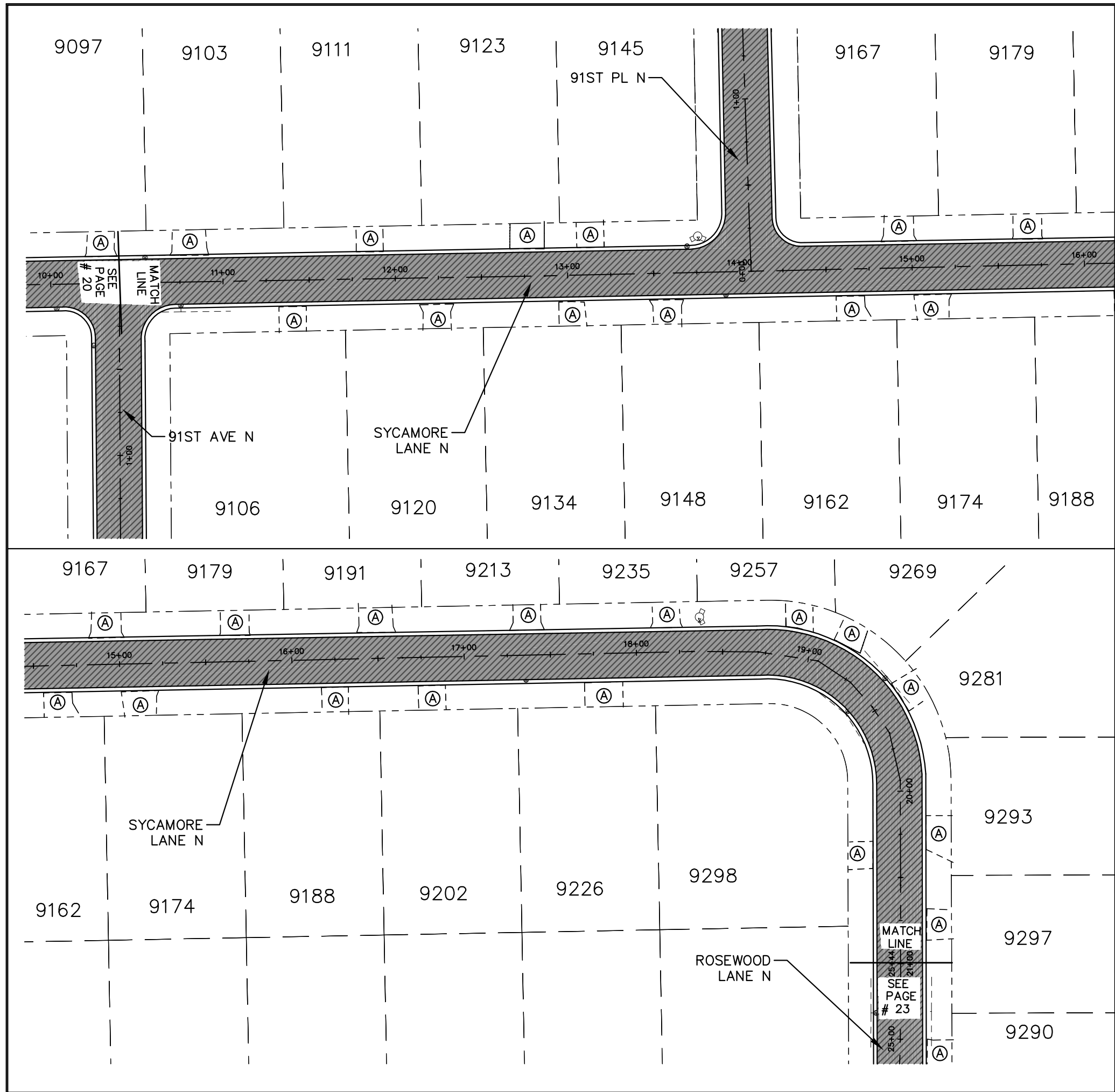
LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
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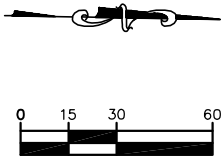
SYCAMORE LN N	
City of Maple Grove 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350	
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM	
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DRAWN: JRB CHECKED: JEF APPROVED: JGH DATE: 03/24/16 CONTR.#/ENG 16-06 SHEET 20 of 45	
NO. DATE BY	REMARKS REVISIONS



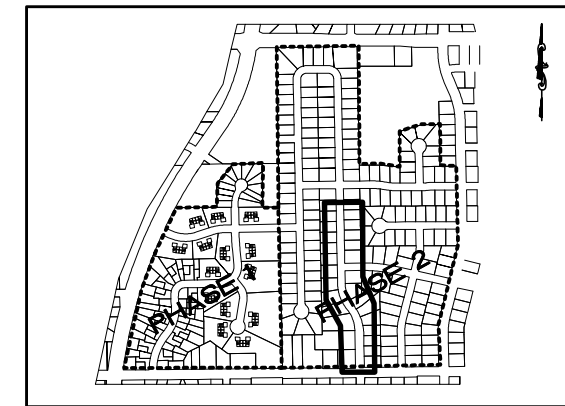
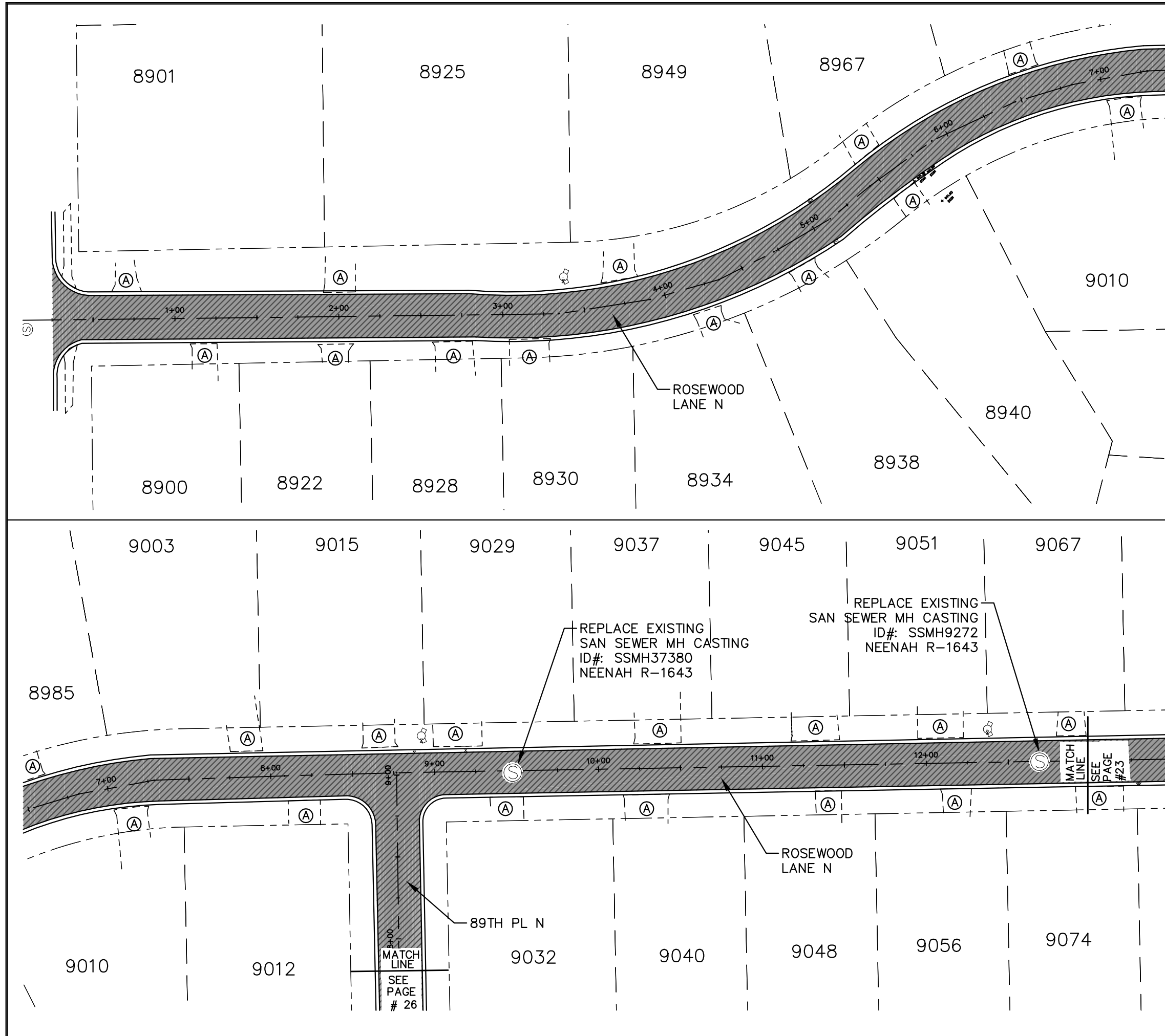
LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

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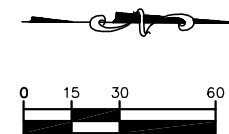
SYCAMORE LN N	
	12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM	
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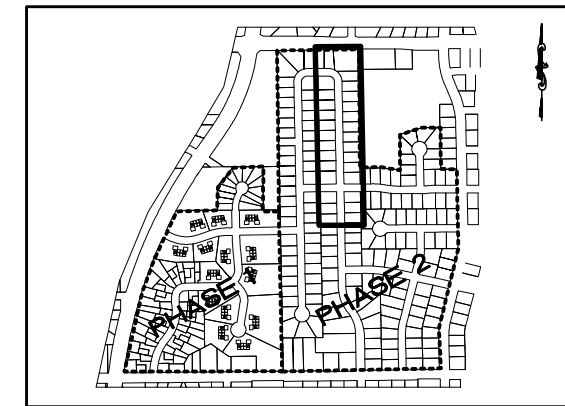
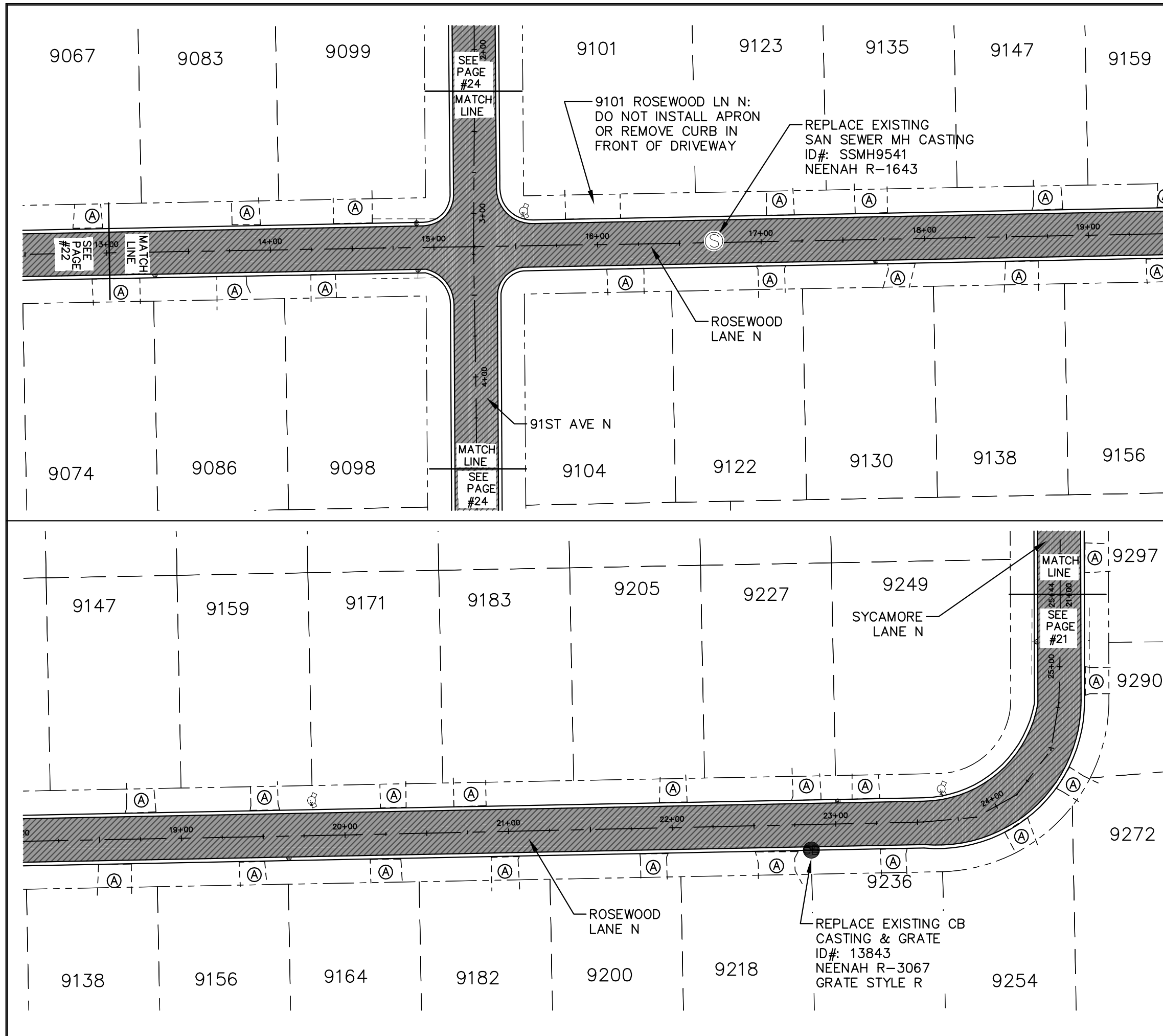
LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

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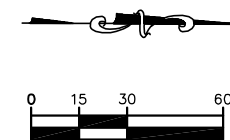
ROSEWOOD LN N		NO. DATE BY		REMARKS
		REVISIONS		
 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350		2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM		
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: 03/24/16		DRAWN: JRB		
		CHECKED: JEF		
SHEET 22 OF 45		APPROVED: JGH		
		DATE: 03/24/16		
		CONTR.# ENG 16-06		
		SHEET		



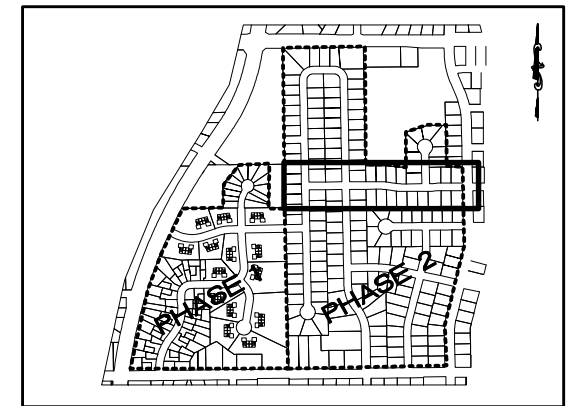
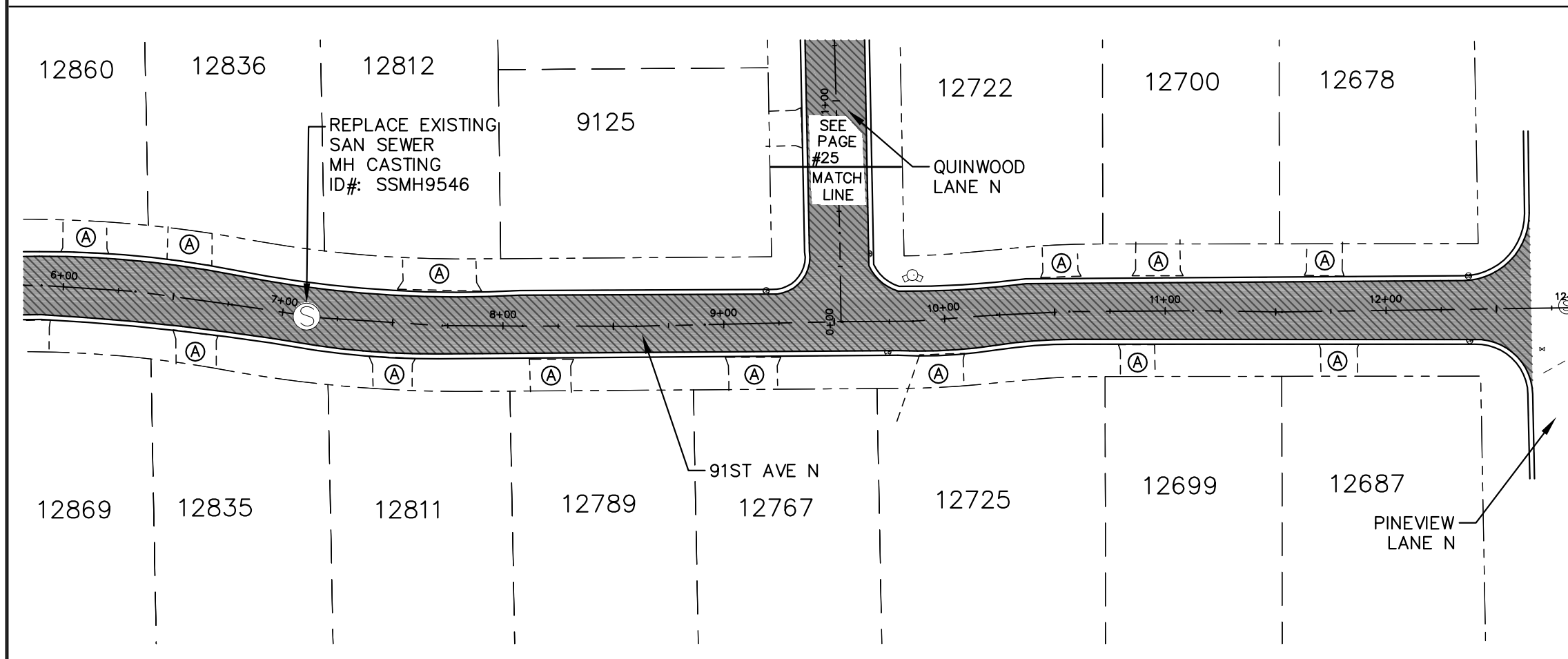
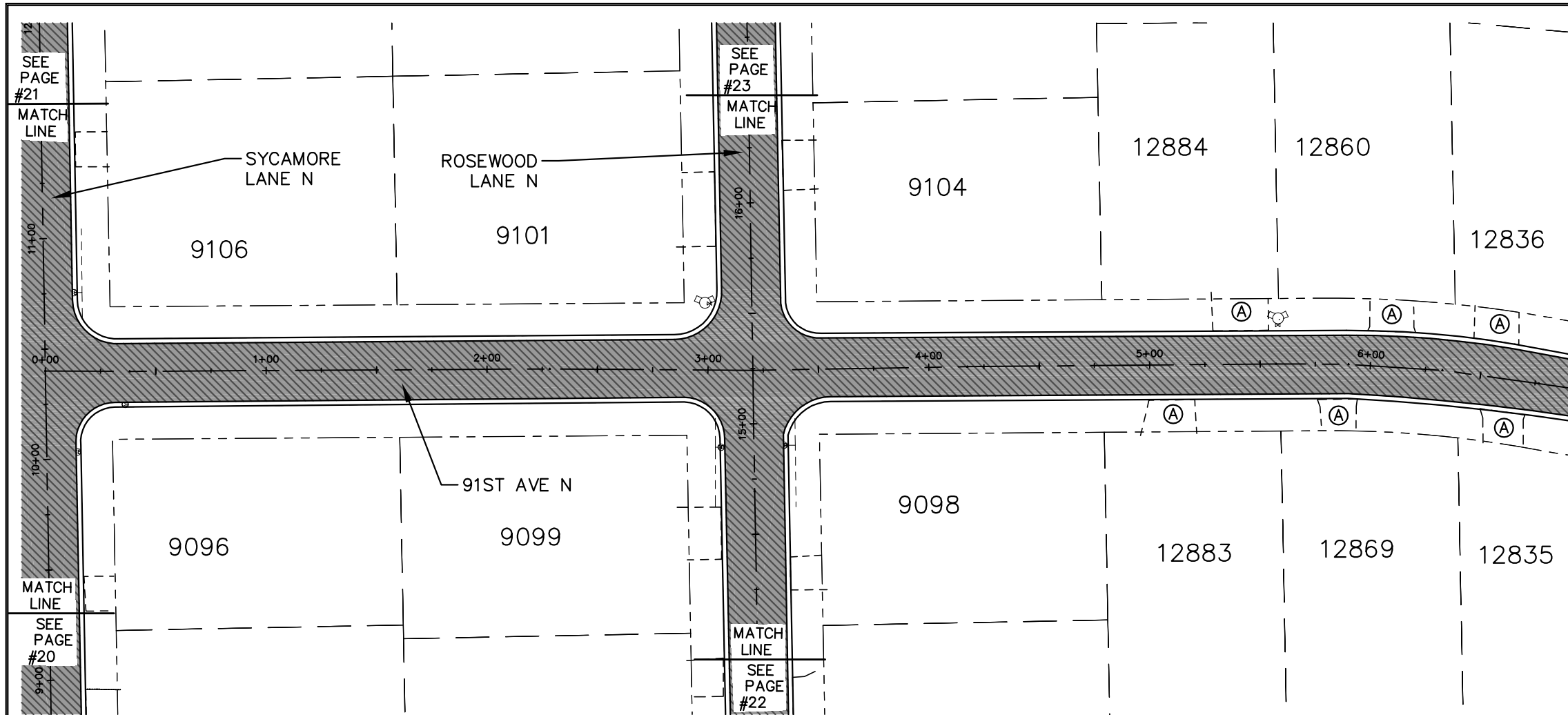
LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

- GENERAL NOTES:**
- SUBGRADE TO BE ROLL-TESTED PRIOR TO BASE COURSE INSTALLATION AND PAVING OPERATIONS.
 - EXISTING DRIVEWAY REMOVAL LIMITS WILL BE MARKED IN FIELD BY ENGINEER. UNLESS OTHERWISE MARKED, STANDARD REMOVAL LIMITS ARE BACK OF NEW CONCRETE APRON.
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 - SPOT CURB REMOVALS TO BE DETERMINED IN THE FIELD AND MARKED BY CITY STAFF.
 - CONTRACTOR WILL NOT CONSTRUCT PAST RIGHT OF WAY LINE WITHOUT CITY AND OWNERS WRITTEN PERMISSION.



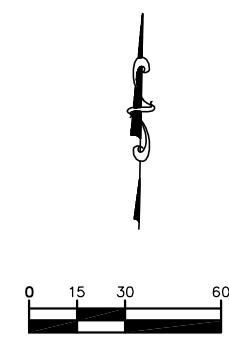
ROSEWOOD LN N	
	12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM	
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA DATE: 03/24/16 LIC. NO. 42064	
DRAWN: JRB CHECKED: JEF APPROVED: JGH DATE: 03/24/16 CONTR.#ENG 16-06 SHEET 23 of 45	
NO. DATE BY	REMARKS REVISIONS



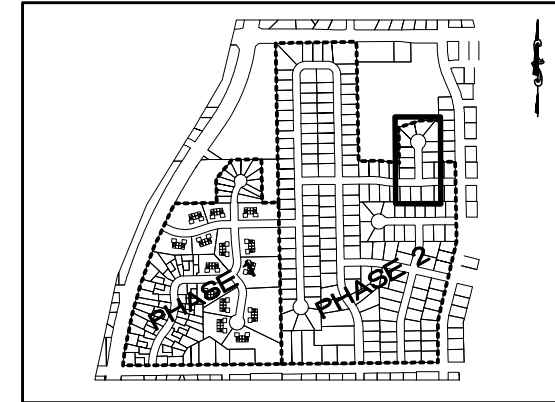
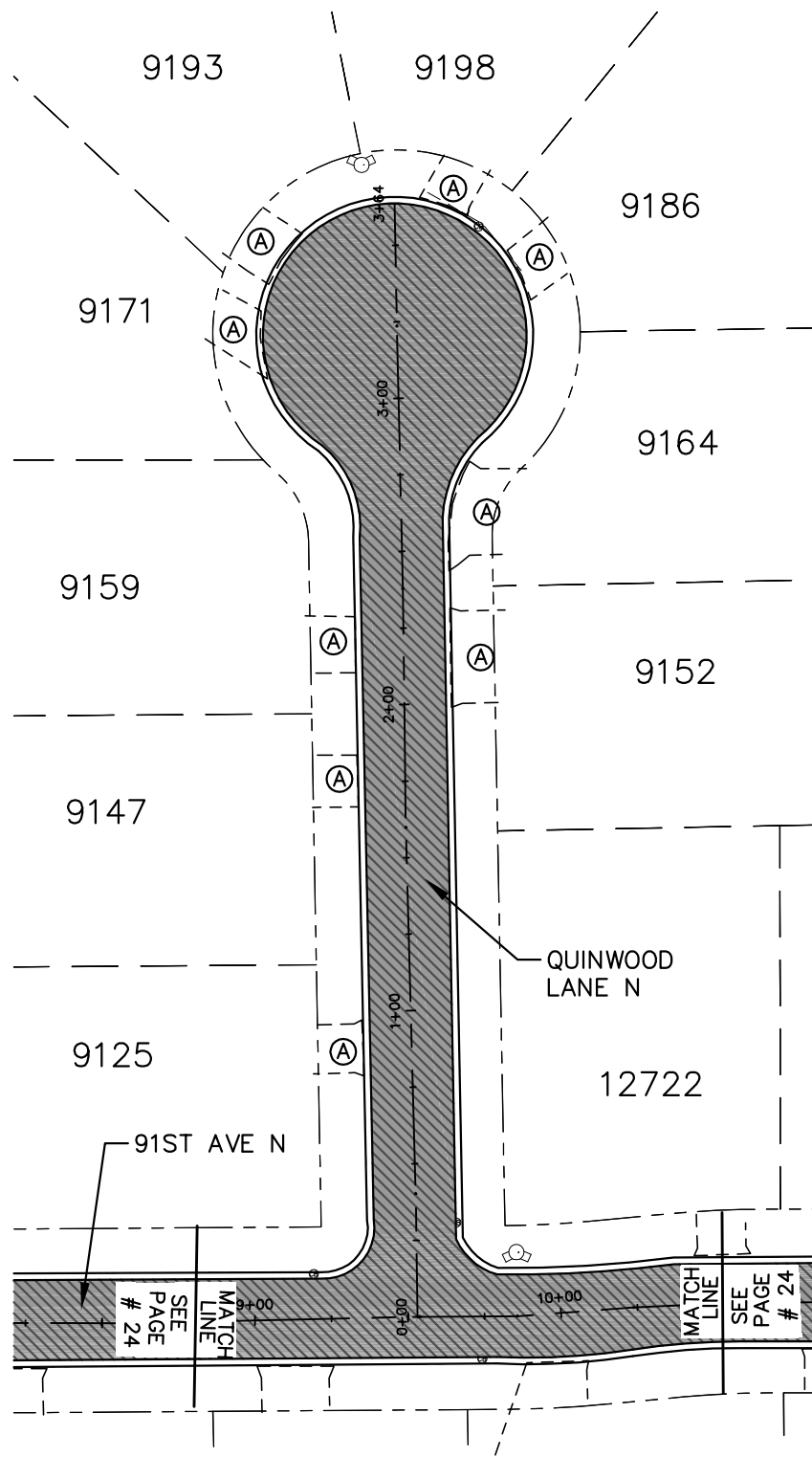
LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

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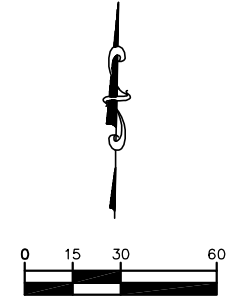
91ST AVE N	
<p>City of Maple Grove 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350</p>	<p>2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM</p>
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
<p>DATE: 03/24/16</p>	<p>DATE: 03/24/16</p>
<p>24 of 45</p>	



LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

- GENERAL NOTES:**
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NO.	DATE	BY	REMARKS

QUINWOOD LN N

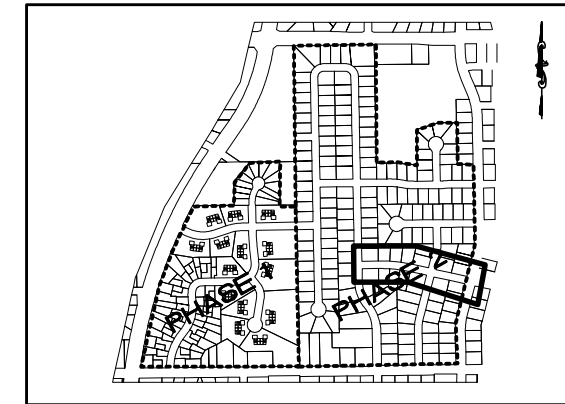
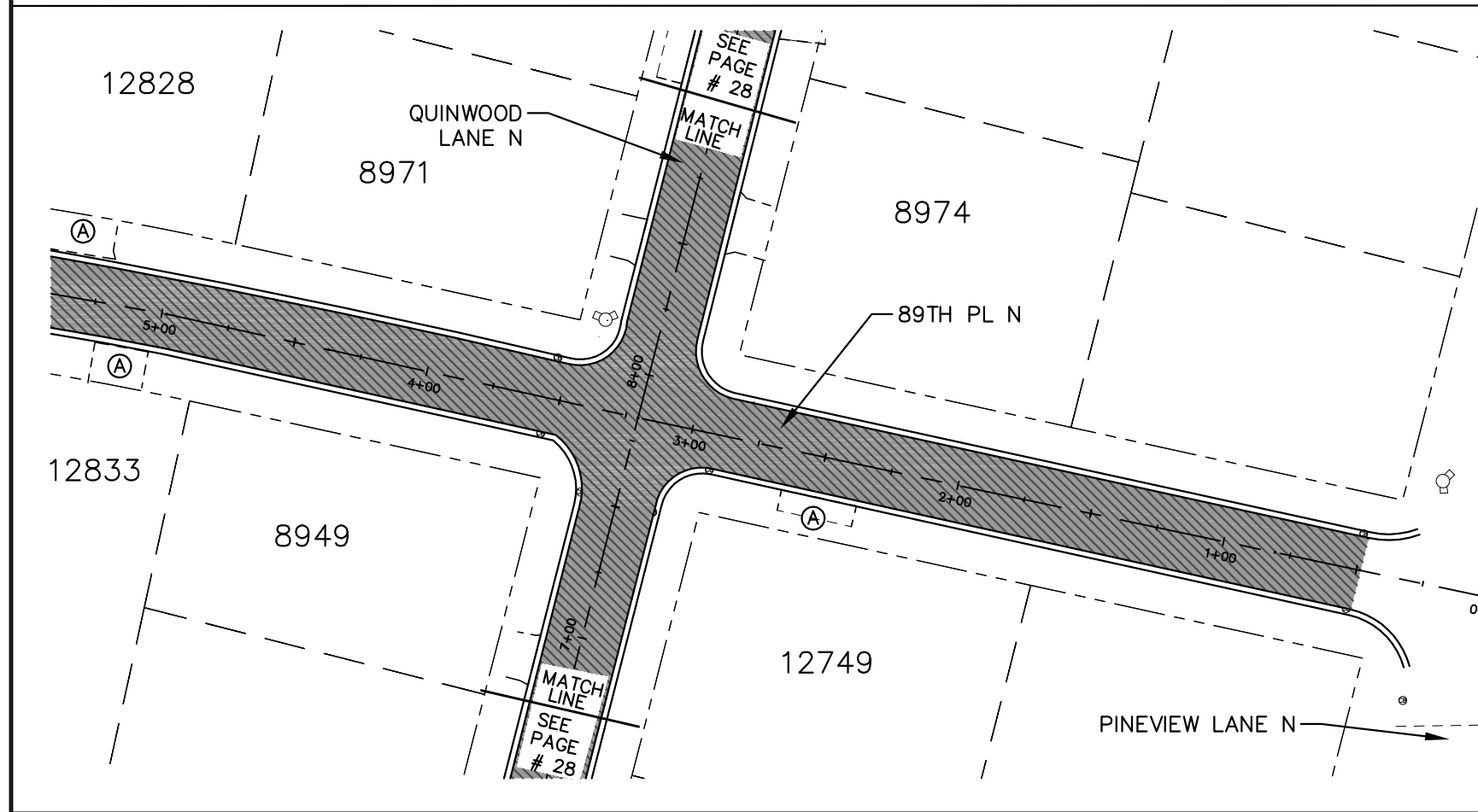
City of Maple Grove
 12800 ARBOR LAKES PARKWAY
 MAPLE GROVE, MN 55311
 PHONE: (763) 494-6350



2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

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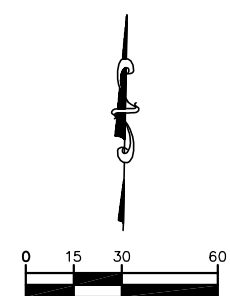
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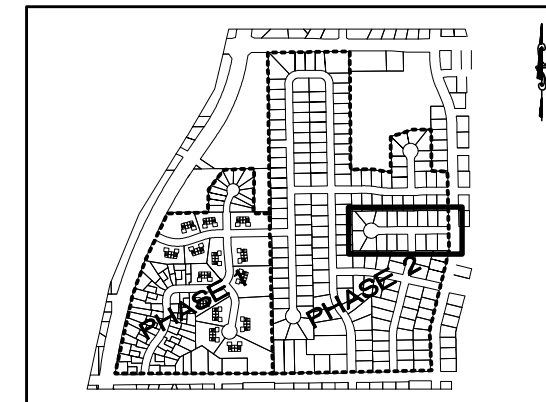
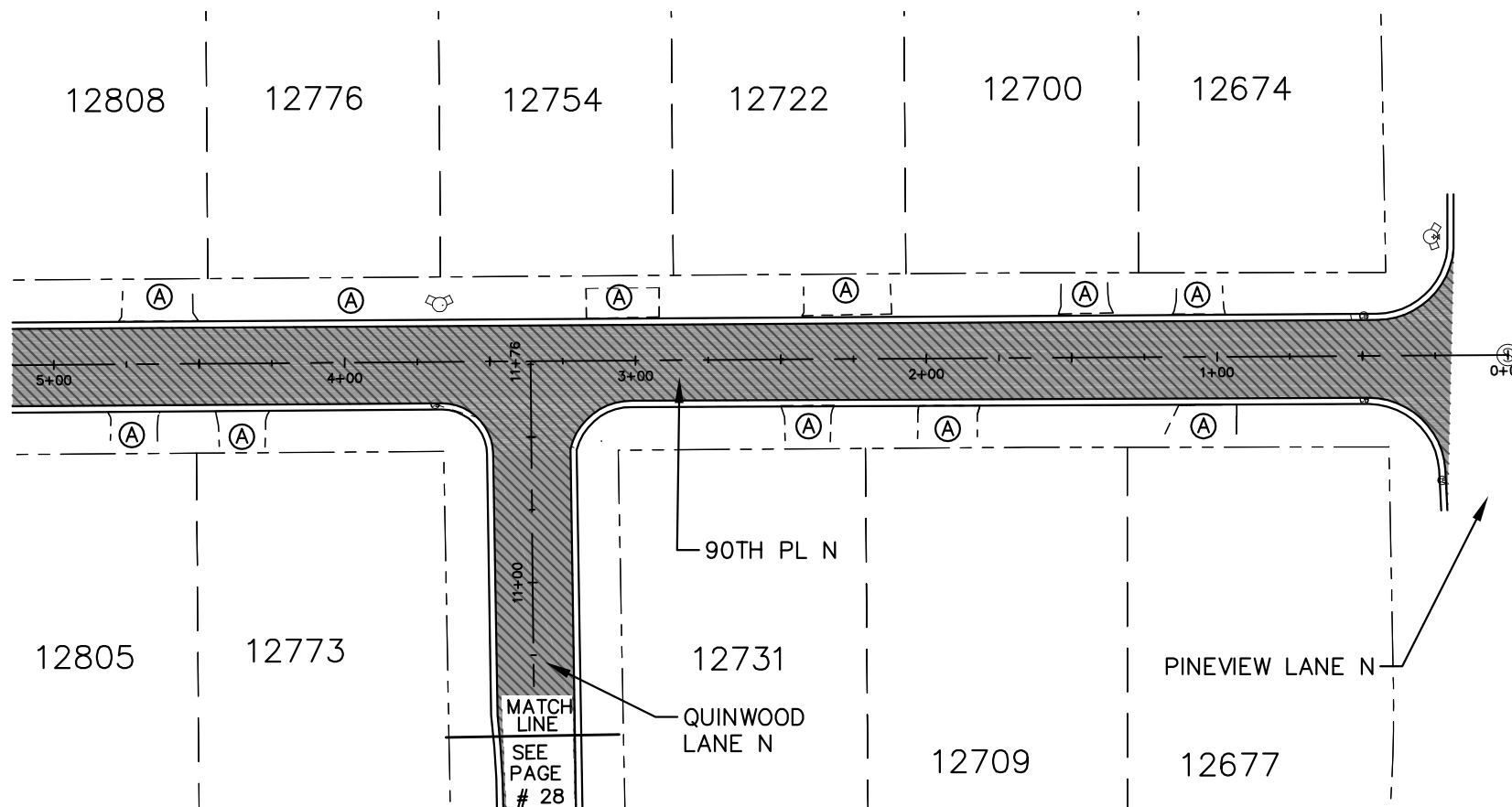
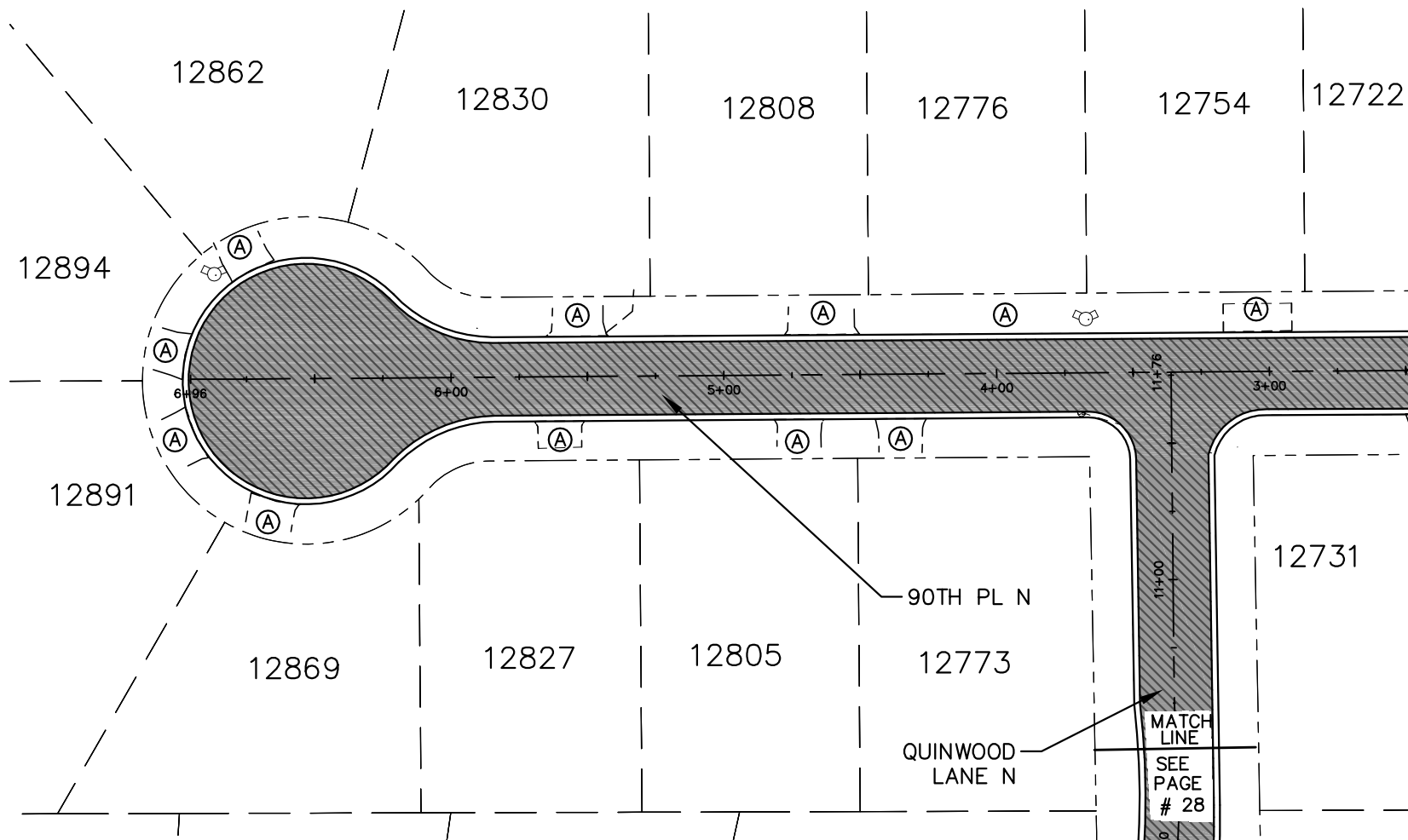
DRAWN: JRB
 CHECKED: JEF
 APPROVED: JGH
 DATE: 03/24/16
 CONTR.#/ENG 16-06
 SHEET **25** OF **45**



	REMOVE BITUMINOUS PAVEMENT
	6" CONCRETE DRIVEWAY APRON
— — —	LOT LINES
— — — — —	RIGHT OF WAY
= = = = =	EXISTING CURB & GUTTER
=====	REPLACE CURB AND GUTTER IN KIND

- GENERAL NOTES:
1. SUBGRADE TO BE ROLL-TESTED PRIOR TO BASE COURSE INSTALLATION AND PAVING OPERATIONS.
 2. EXISTING DRIVEWAY REMOVAL LIMITS WILL BE MARKED IN FIELD BY ENGINEER. UNLESS OTHERWISE MARKED, STANDARD REMOVAL LIMITS ARE BACK OF NEW CONCRETE APRON.
 3. ALL DRIVEWAYS TO HAVE INTEGRAL CONCRETE APRON POURED WITH CURB AND GUTTER, UNLESS NOTED OTHERWISE.
 4. SPOT CURB REMOVALS TO BE DETERMINED IN THE FIELD AND MARKED BY CITY STAFF.
 5. CONTRACTOR WILL NOT CONSTRUCT PAST RIGHT OF WAY LINE WITHOUT CITY AND OWNERS WRITTEN PERMISSION.





LEGEND

- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

- GENERAL NOTES:**
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NO.	DATE	BY	REMARKS

90TH PL N

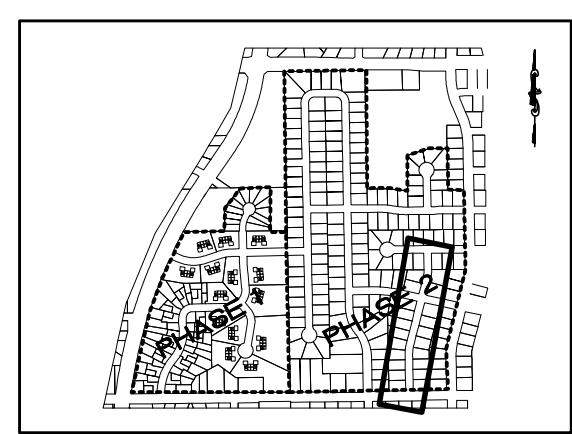
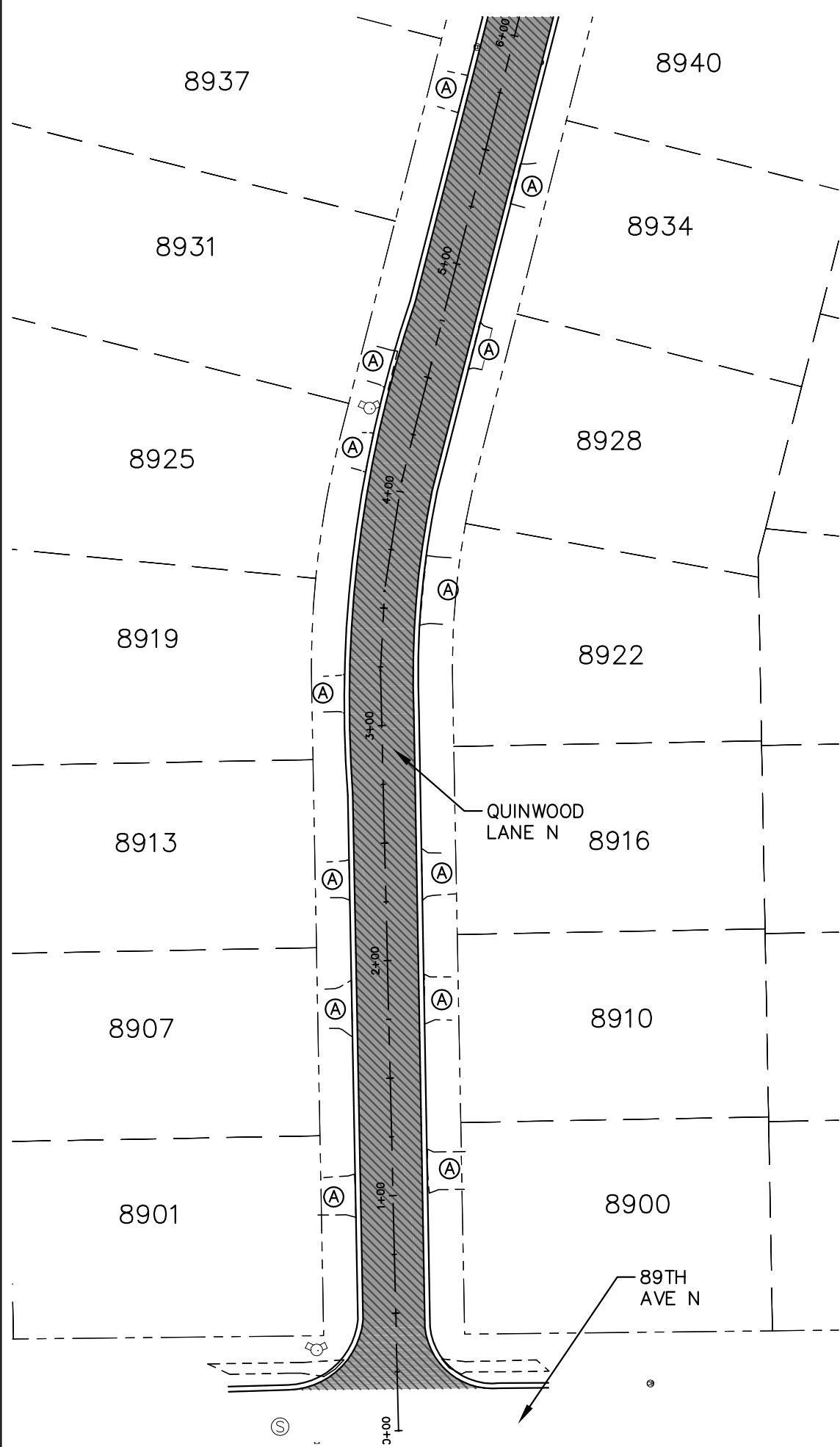
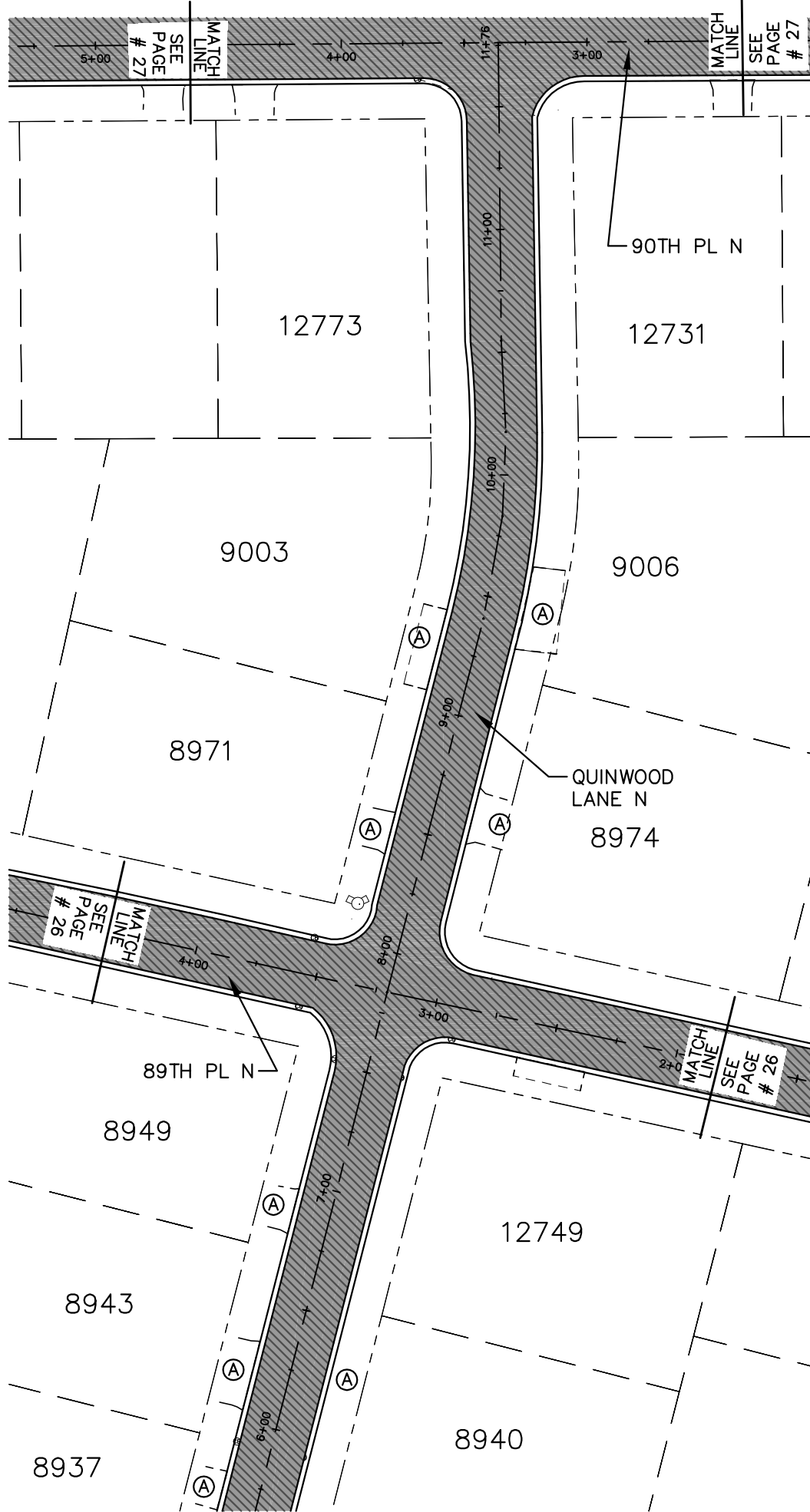
City of Maple Grove
 12800 ARBOR LAKES PARKWAY
 MAPLE GROVE, MN 55311
 PHONE: (763) 494-6350

2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
 DATE: 03/24/16
 LIC. NO. 42064

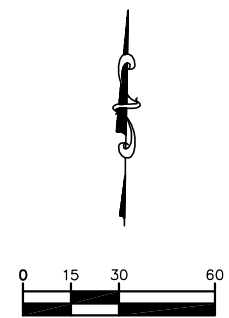
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 CHECKED: JEF
 APPROVED: JGH
 DATE: 03/24/16
 CONTR.# ENG 16-06
 SHEET **27** OF **45**



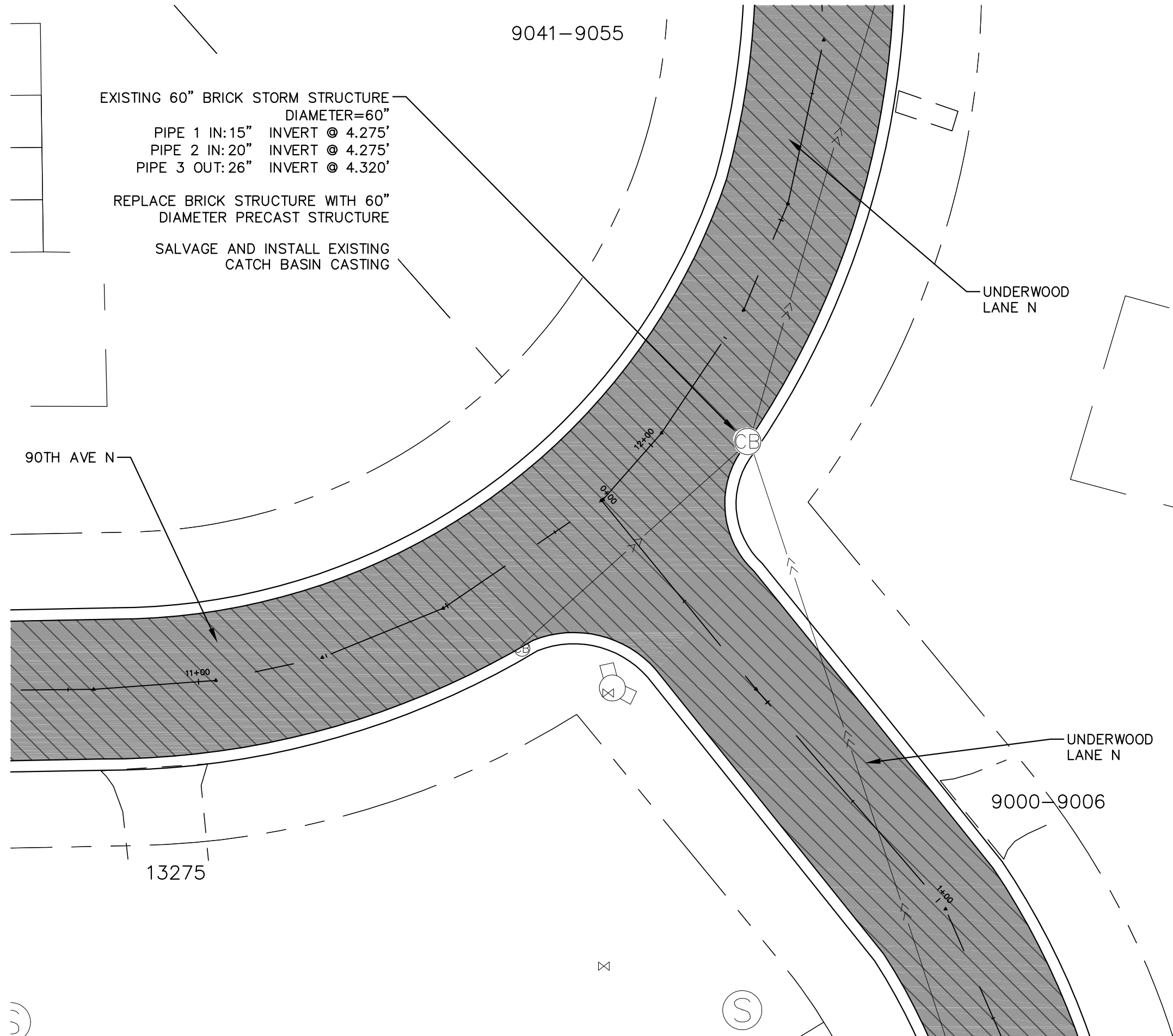
LEGEND

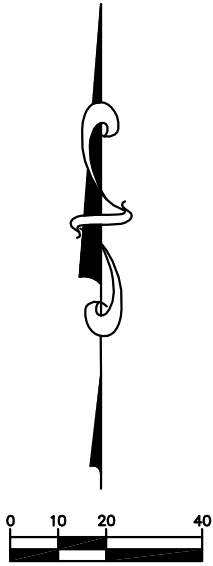
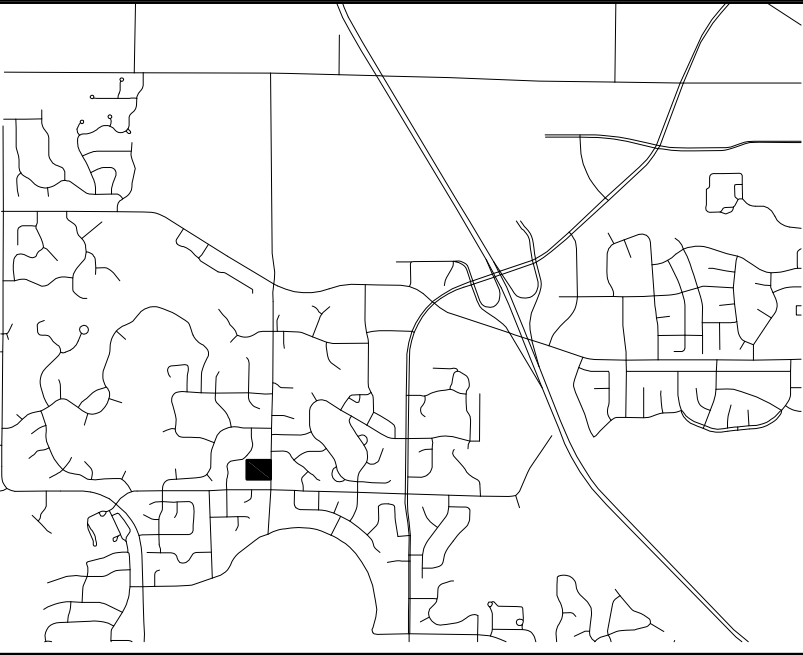
- REMOVE BITUMINOUS PAVEMENT
- 6" CONCRETE DRIVEWAY APRON
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER
- REPLACE CURB AND GUTTER IN KIND

- GENERAL NOTES:**
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<p>City of Maple Grove 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350</p>		<p>QUINWOOD LN N</p>
<p>2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM</p>		<p>DATE: 03/24/16</p>
<p>CONTRACT # ENG 16-06</p>		<p>REMARKS</p>
<p>SHEET 28 OF 45</p>		<p>REVISIONS</p>





- GENERAL NOTES:
1. CONTRACTOR SHALL ESTABLISH TRAFFIC CONTROL IN ACCORDANCE WITH MNDOT FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
 2. SPOT CURB REMOVALS TO BE DETERMINED IN THE FIELD AND MARKED BY CITY STAFF.

=====

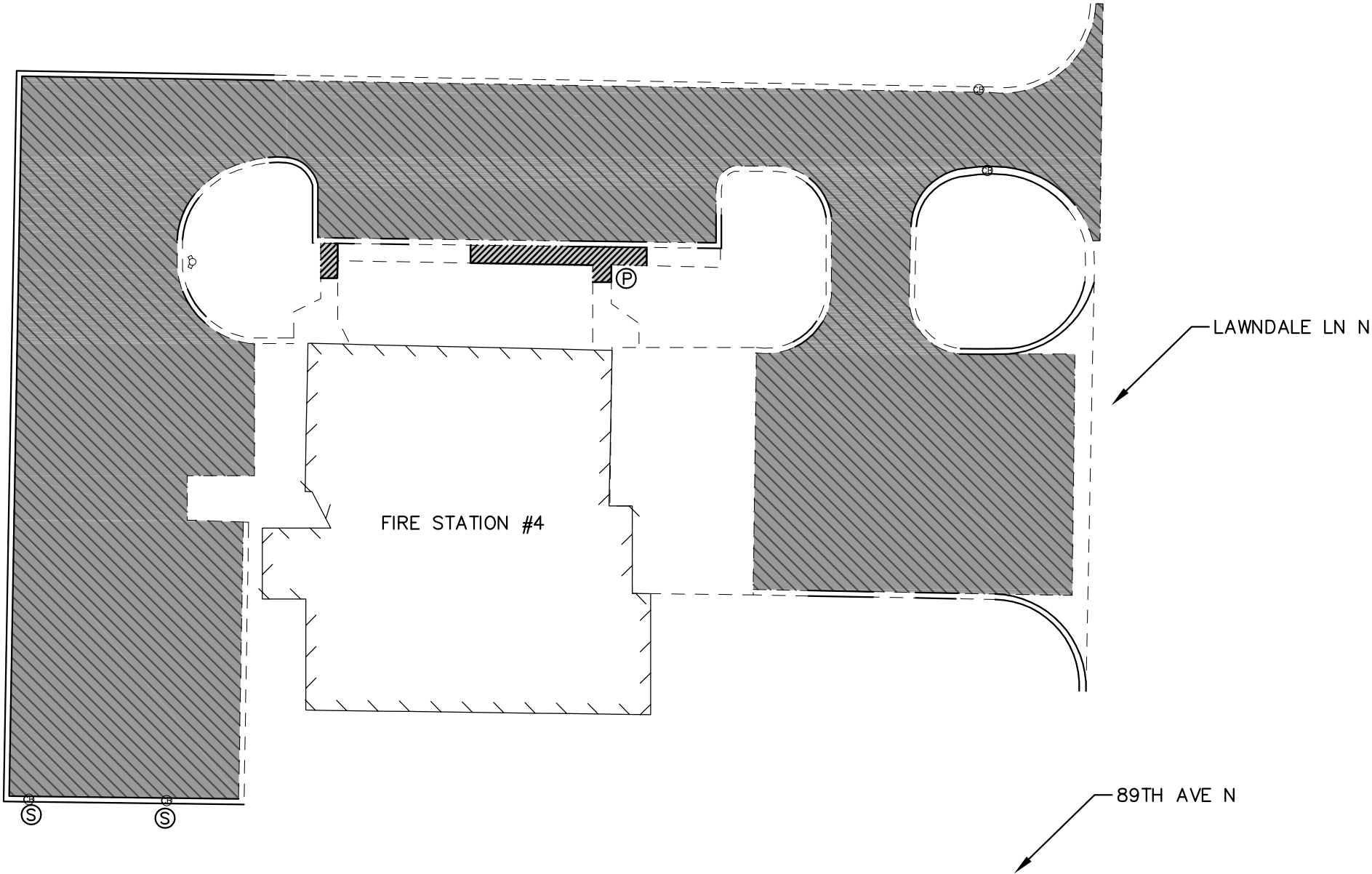
=====

REMOVE BITUMINOUS PAVEMENT
REPLACE 5" CONC WALK
EXISTING CURB & GUTTER
REPLACE CURB AND GUTTER IN KIND
RIGHT OF WAY

Ⓟ

Ⓢ

CONSTRUCT PEDESTRIAN CURB RAMP
SALVAGE & INSTALL CASTING ASSEMBLY



NO.	DATE	BY	REMARKS

FIRE STATION #4
PARKING LOT
CONSTRUCTION PLAN



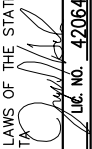
City of

Maple Grove

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM

I HEREBY CERTIFY THAT THIS
PLAN WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE
OF MINNESOTA


J. E. F.
Lic. No. 42064
DATE: _____

DRAWN: JEF
CHECKED: JEF
APPROVED: JGH
DATE: 03/30/16
CONTR.#/ENG 16-06
SHEET 30 of 45



SYMBOLS & MATERIALS LEGEND

STRIPING KEY

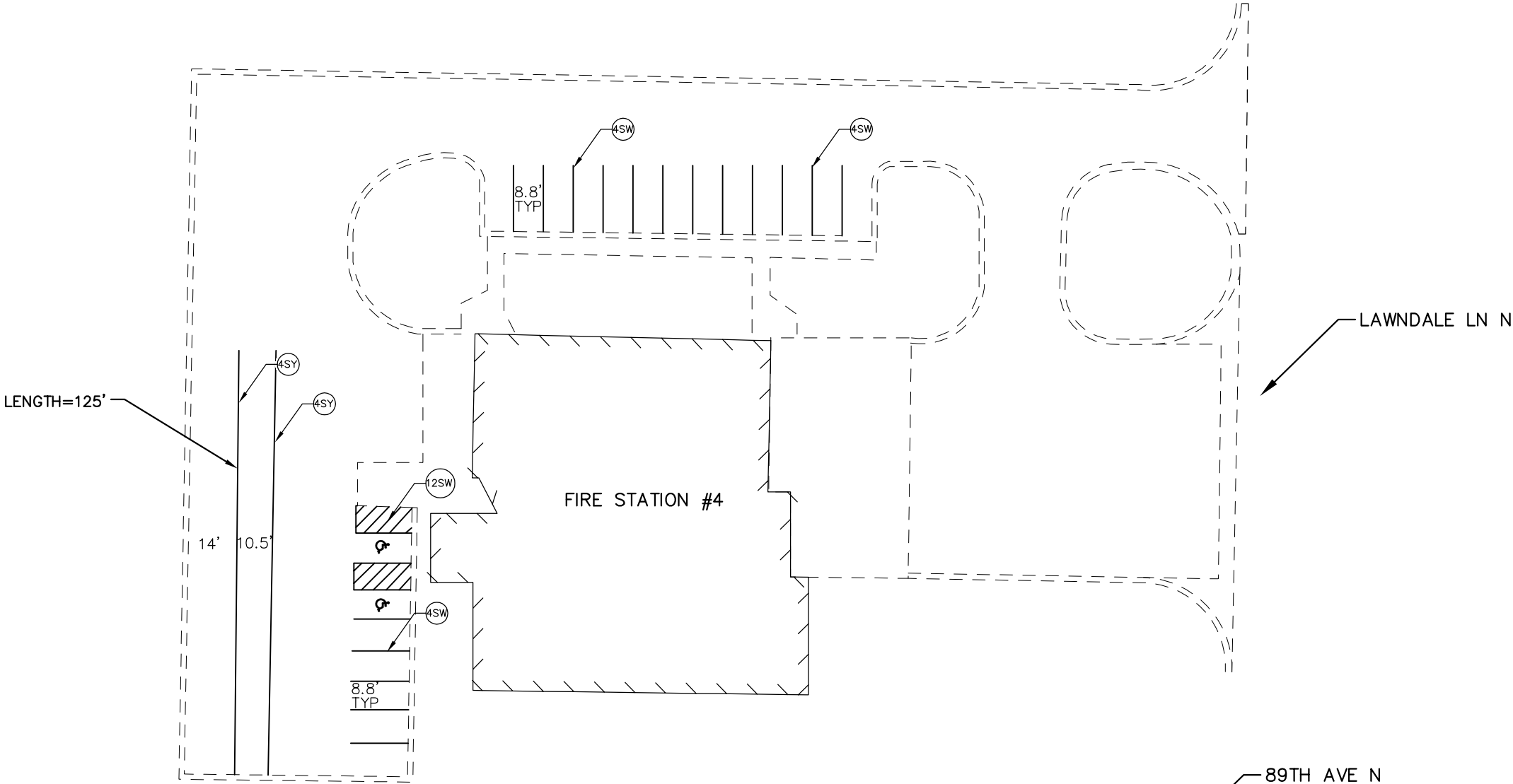
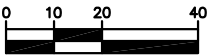
CIRCLE-EPOXY

1ST DIGIT
WIDTH
4",8",12"
OR 24"

2ND DIGIT
PATTERN
S-SOLID
B-BROKEN
D-DOTTED/DOUBLE

3RD DIGIT
COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: (4SW) = 4" SOLID LINE WHITE-EPOXY



NO.	DATE	BY	REMARKS

**FIRE STATION #4
PARKING LOT
STRIPING**

**City of
Maple Grove**

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

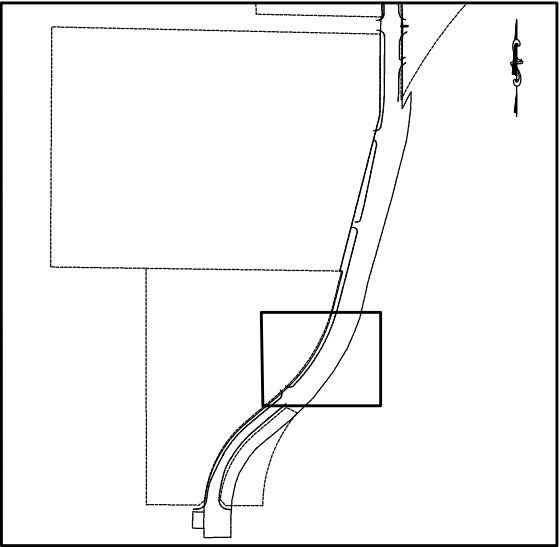
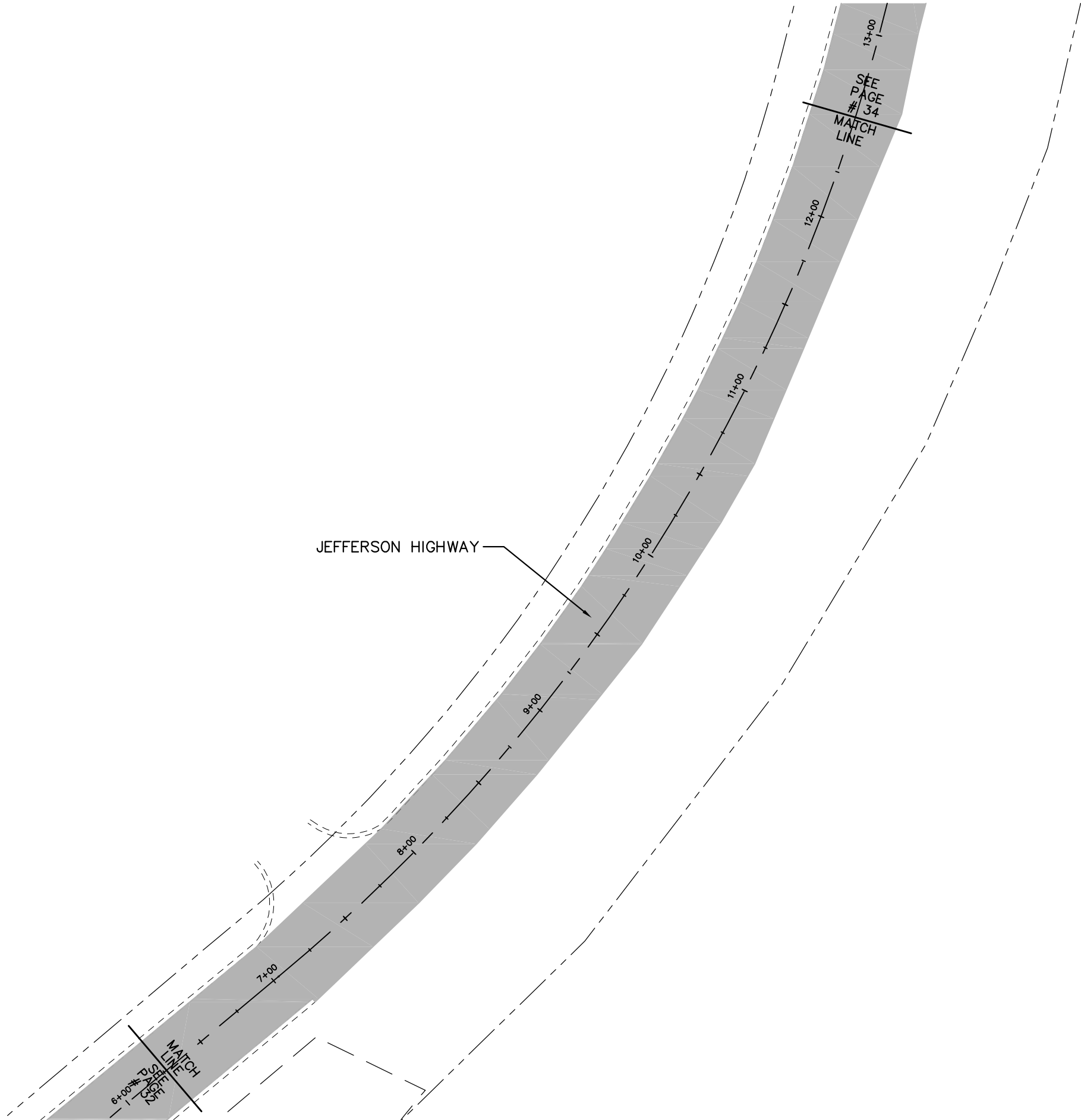
**2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM**

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OF MINNESOTA

J. E. F. J.
Lic. No. 42064

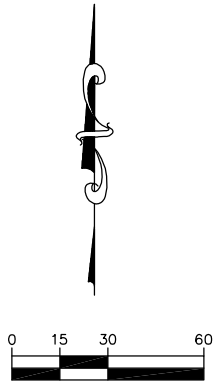
DATE: _____

DRAWN: JEF
CHECKED: JEF
APPROVED: JGH
DATE: 03/30/16
CONTR.#/ENG 16-06
SHEET **31** of **45**



LEGEND

- 2" MILL & OVERLAY BITUMINOUS PAVEMENT
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER



GENERAL NOTES:
1. MILL AND REMOVE 2" OF EXISTING BITUMINOUS PAVEMENT

NO.	DATE	BY	REMARKS

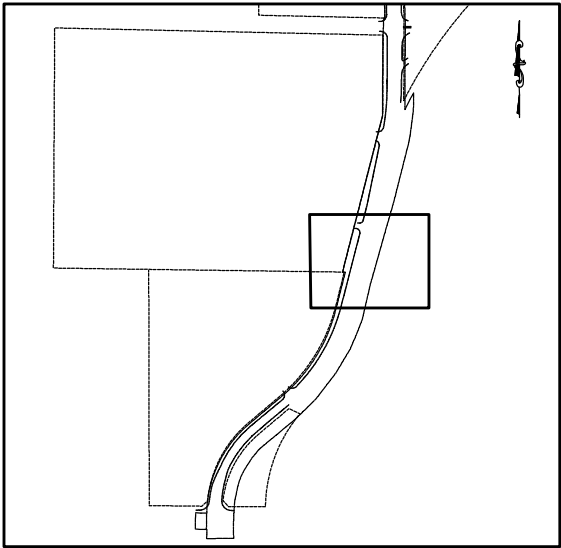
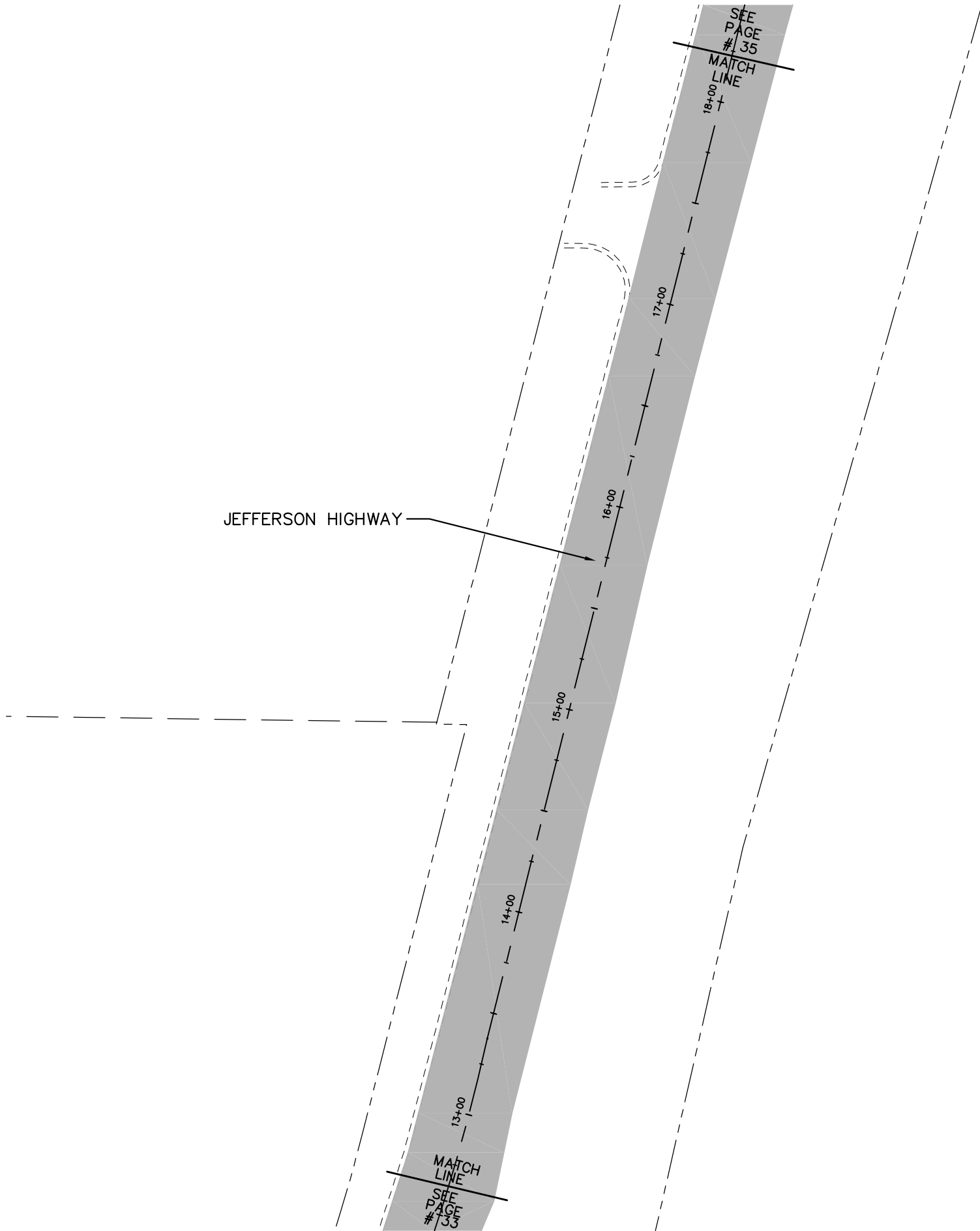
JEFFERSON HIGHWAY
CONSTRUCTION PLANS
STA 06+25 - 12+50

City of Maple Grove
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM

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[Signature]
DATE: 03/28/16

DRAWN: JRB
CHECKED: JEF
APPROVED: JGH
CONTR.# ENG 16-06
SHEET 33 of 45



LEGEND

- 2" MILL & OVERLAY BITUMINOUS PAVEMENT
- LOT LINES
- RIGHT OF WAY
- EXISTING CURB & GUTTER

- GENERAL NOTES:
- MILL AND REMOVE 2" OF EXISTING BITUMINOUS PAVEMENT

NO.	DATE	BY	REMARKS

**JEFFERSON HIGHWAY
CONSTRUCTION PLANS
STA 12+50 - 18+25**

City of Maple Grove
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

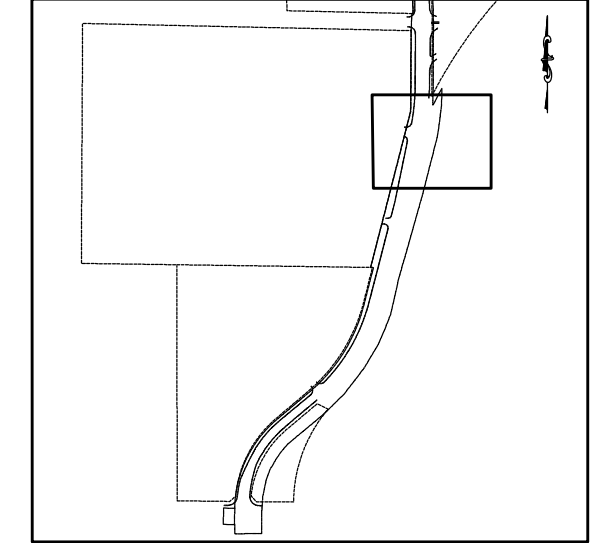
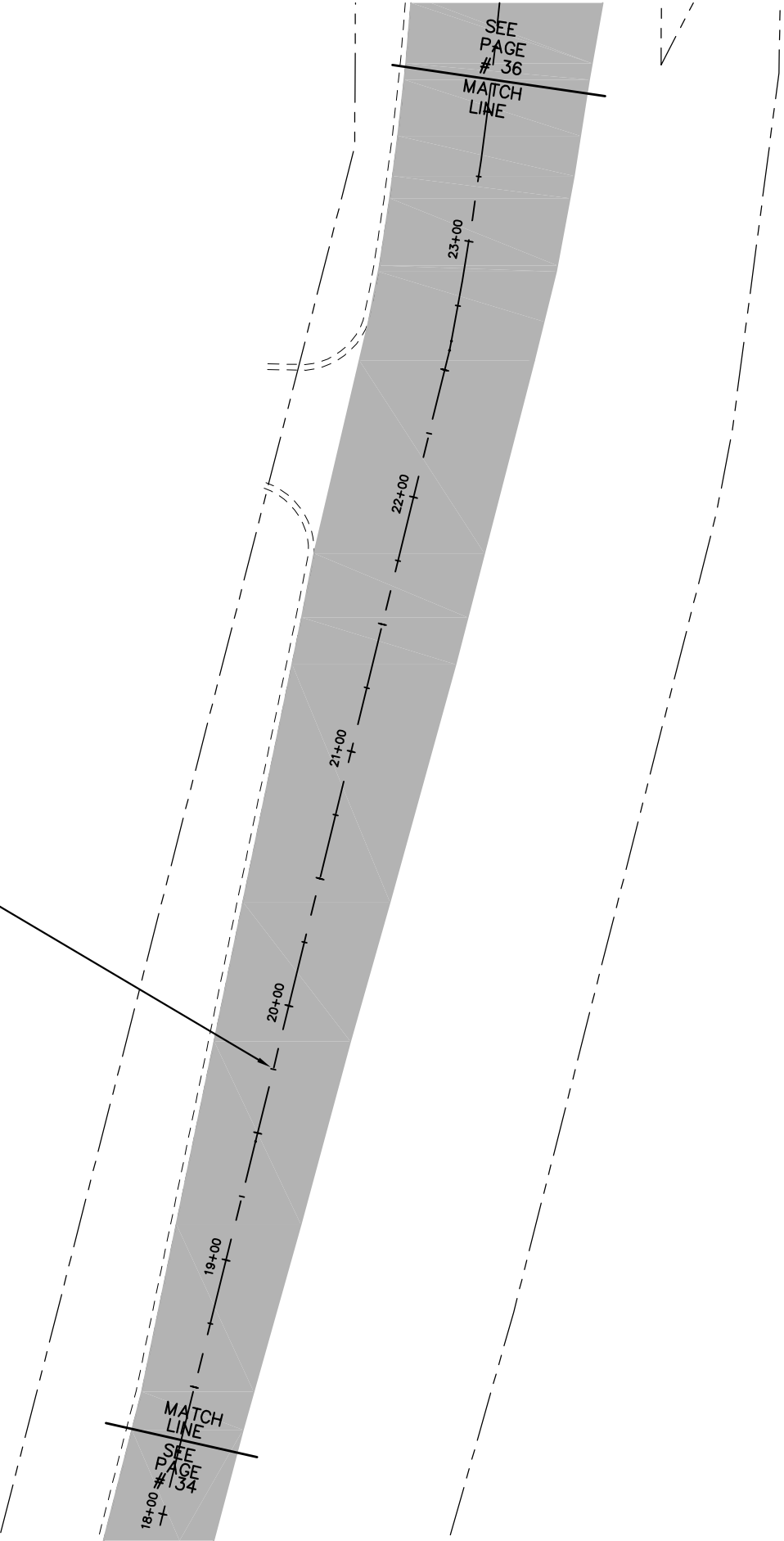
**2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM**

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[Signature]
DATE: 03/28/16
CONTR.# ENG 16-06
SHEET 34 of 45

DRAWN: JRB
CHECKED: JEF
APPROVED: JGH

JEFFERSON HIGHWAY

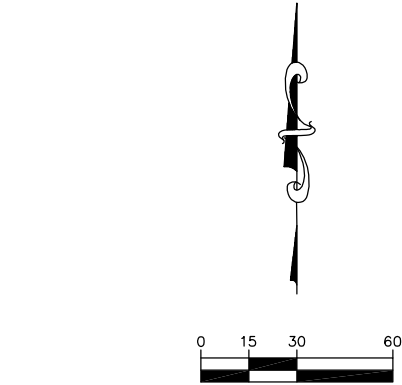


2" MILL & OVERLAY
BITUMINOUS PAVEMENT

--- LOT LINES

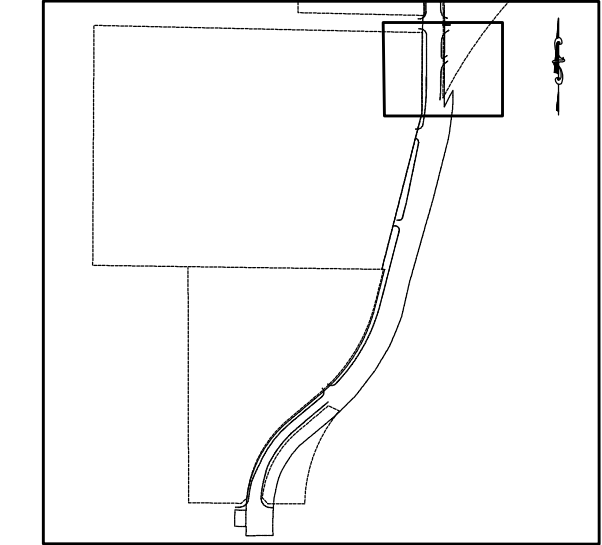
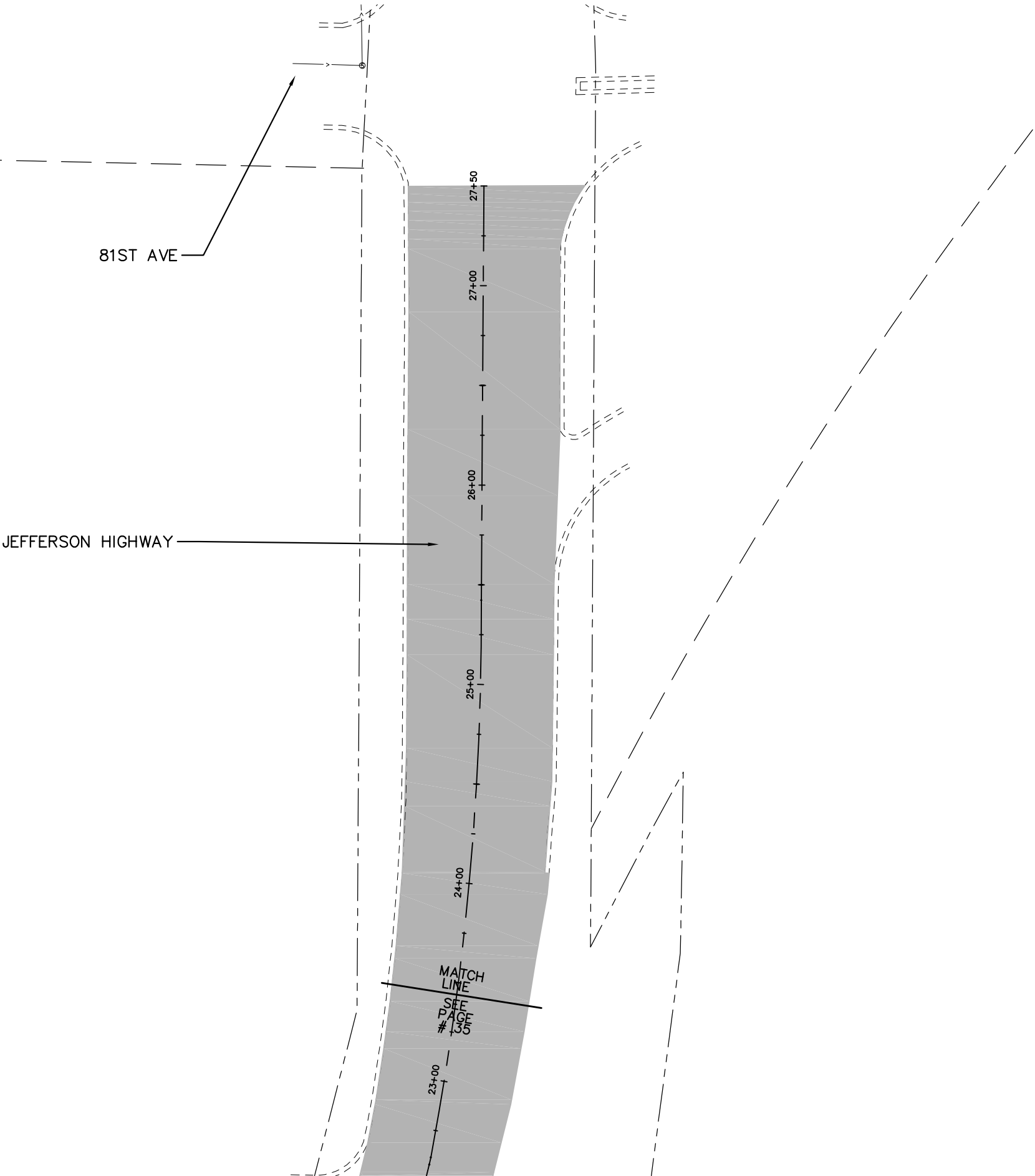
--- RIGHT OF WAY

==== EXISTING CURB & GUTTER



- GENERAL NOTES:
- MILL AND REMOVE 2" OF EXISTING BITUMINOUS PAVEMENT

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. _____ DATE: 03/28/16	DRAWN: JRB CHECKED: JEF APPROVED: JGH DATE: 03/28/16 CONTR.#ENG 16-06 SHEET 35 of 45	2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM	 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350	JEFFERSON HIGHWAY CONSTRUCTION PLANS STA 18+25 - 23+50		NO. DATE BY	REMARKS	REVISIONS

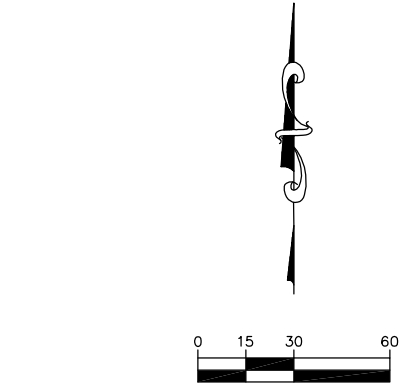


2" MILL & OVERLAY
BITUMINOUS PAVEMENT

LOT LINES

RIGHT OF WAY

EXISTING CURB & GUTTER



- GENERAL NOTES:
- MILL AND REMOVE 2" OF EXISTING BITUMINOUS PAVEMENT

NO.	DATE	BY	REMARKS

JEFFERSON HIGHWAY
CONSTRUCTION PLANS
STA 23+50 - 27+50

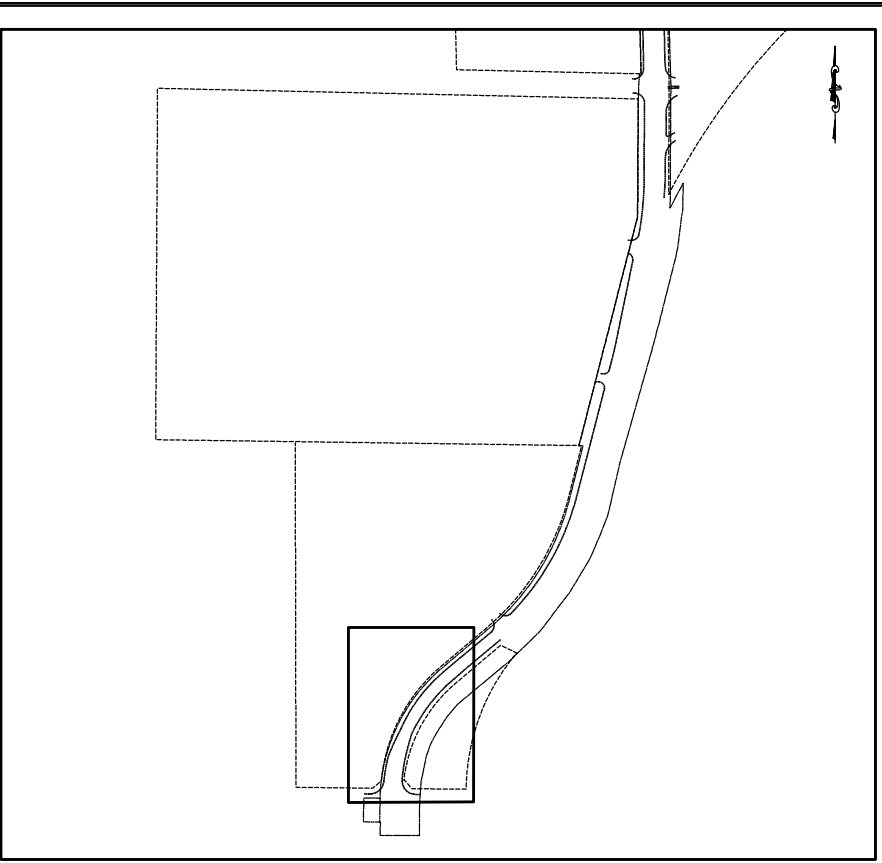
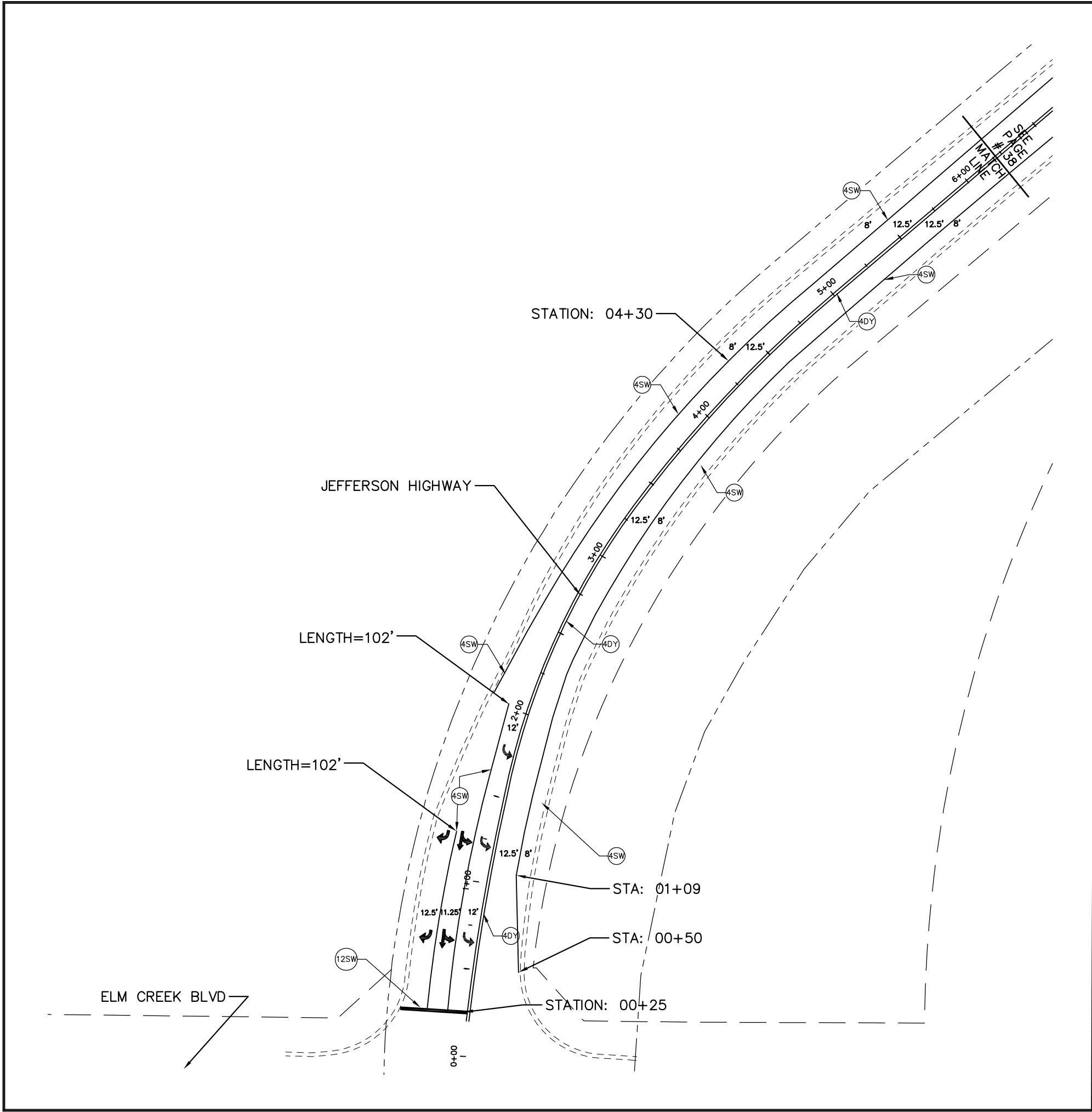
City of
Maple Grove
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM

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DATE: 03/28/16

DRAWN:	JRB
CHECKED:	JEF
APPROVED:	JGH
DATE:	03/28/16
CONTR.#	ENG 16-06
SHEET	36 of 45



LEGEND

LEFT AND THROUGH ARROW, WHITE, EPOXY

RIGHT ARROW, WHITE EPOXY

LEFT ARROW, WHITE EPOXY

LINE STRIPE SYMBOL

4" DOUBLE SOLID LINE-EPOXY

4" SINGLE SOLID LINE-EPOXY

GENERAL NOTES:

1. ALL PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH THE MN MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

0 15 30 60

SYMBOLS & MATERIALS LEGEND

STRIPING KEY

CIRCLE-EPOXY

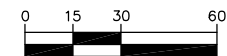
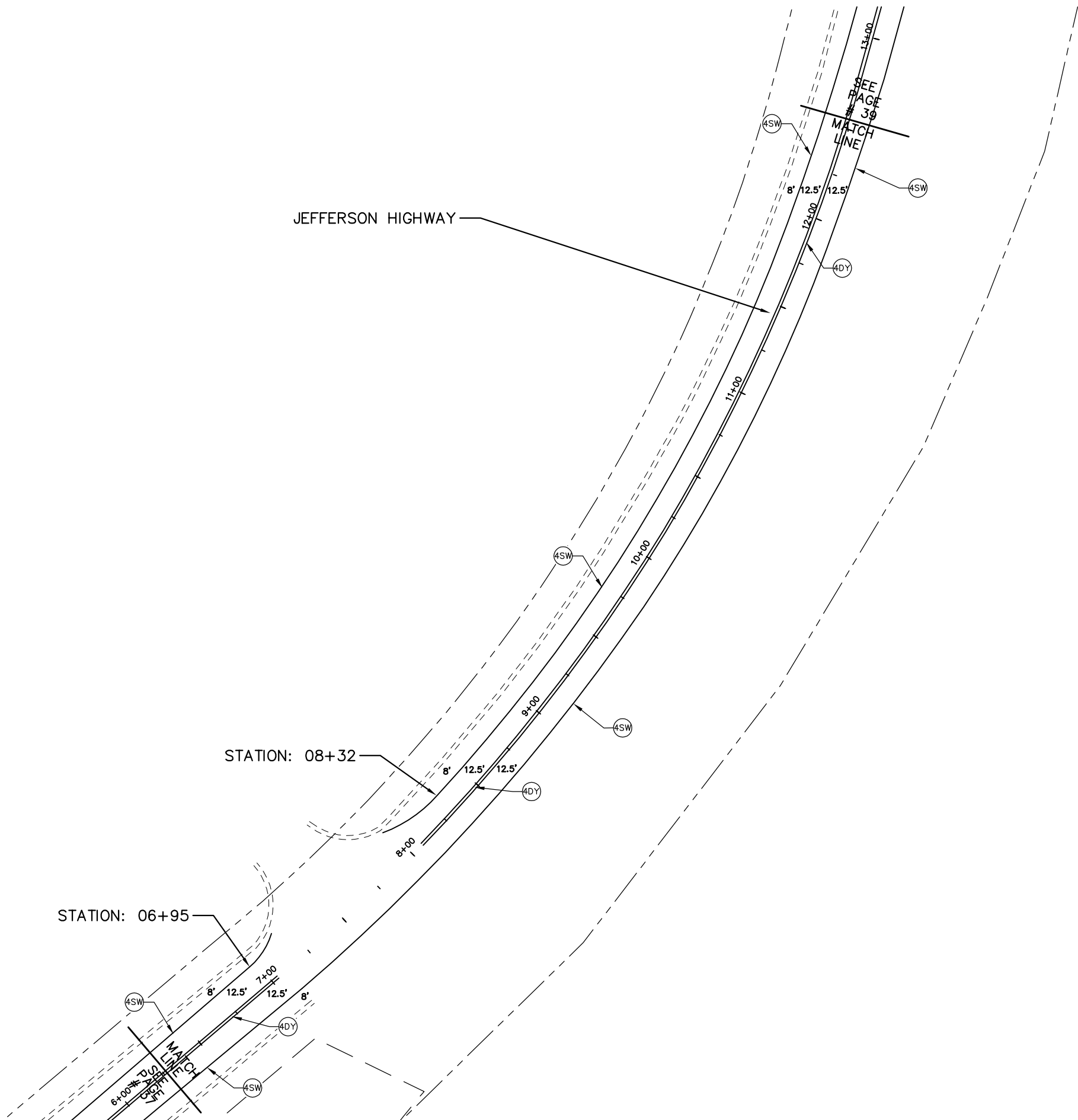
1ST DIGIT WIDTH
4", 8", 12"
OR 24"







2ND DIGIT PATTERN
S-SOLID
B-BROKEN
D-DOUBLE

3RD DIGIT COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-EPOXY

JEFFERSON HIGHWAY PAVEMENT MARKINGS STA 00+00 - 06+25		City of Maple Grove 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350		2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. <i>[Signature]</i> DATE: 03/28/16 CONTR.# ENG 16-06 SHEET 37 of 45	
						DRAWN: JRB CHECKED: JEF APPROVED: JGH DATE: 03/28/16 CONTR.# ENG 16-06 SHEET 37 of 45	
						REMARKS REVISIONS	





LEGEND

LEFT AND THROUGH ARROW, WHITE, EPOXY

RIGHT ARROW, WHITE EPOXY

LEFT ARROW, WHITE EPOXY

LINE STRIPE SYMBOL


4" DOUBLE SOLID LINE-EPOXY

4" SINGLE SOLID LINE-EPOXY

GENERAL NOTES:
1. ALL PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH THE MN MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SYMBOLS & MATERIALS LEGEND

STRIPING KEY



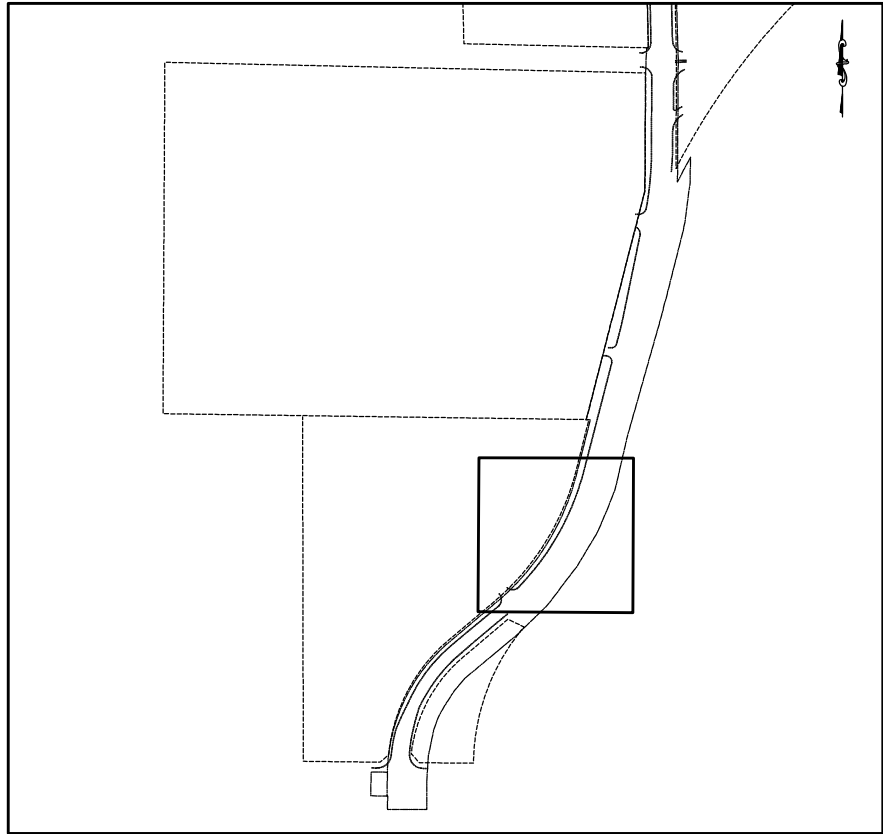
CIRCLE-EPOXY

1ST DIGIT WIDTH
4", 8", 12" OR 24"

2ND DIGIT PATTERN
S-SOLID
B-BROKEN
D-DOUBLE

3RD DIGIT COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-EPOXY



**JEFFERSON HIGHWAY
PAVEMENT MARKINGS
STA 06+25 - 12+50**

City of Maple Grove
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

**2016 MAPLE GROVE
STREET RECONSTRUCTION
PROGRAM**

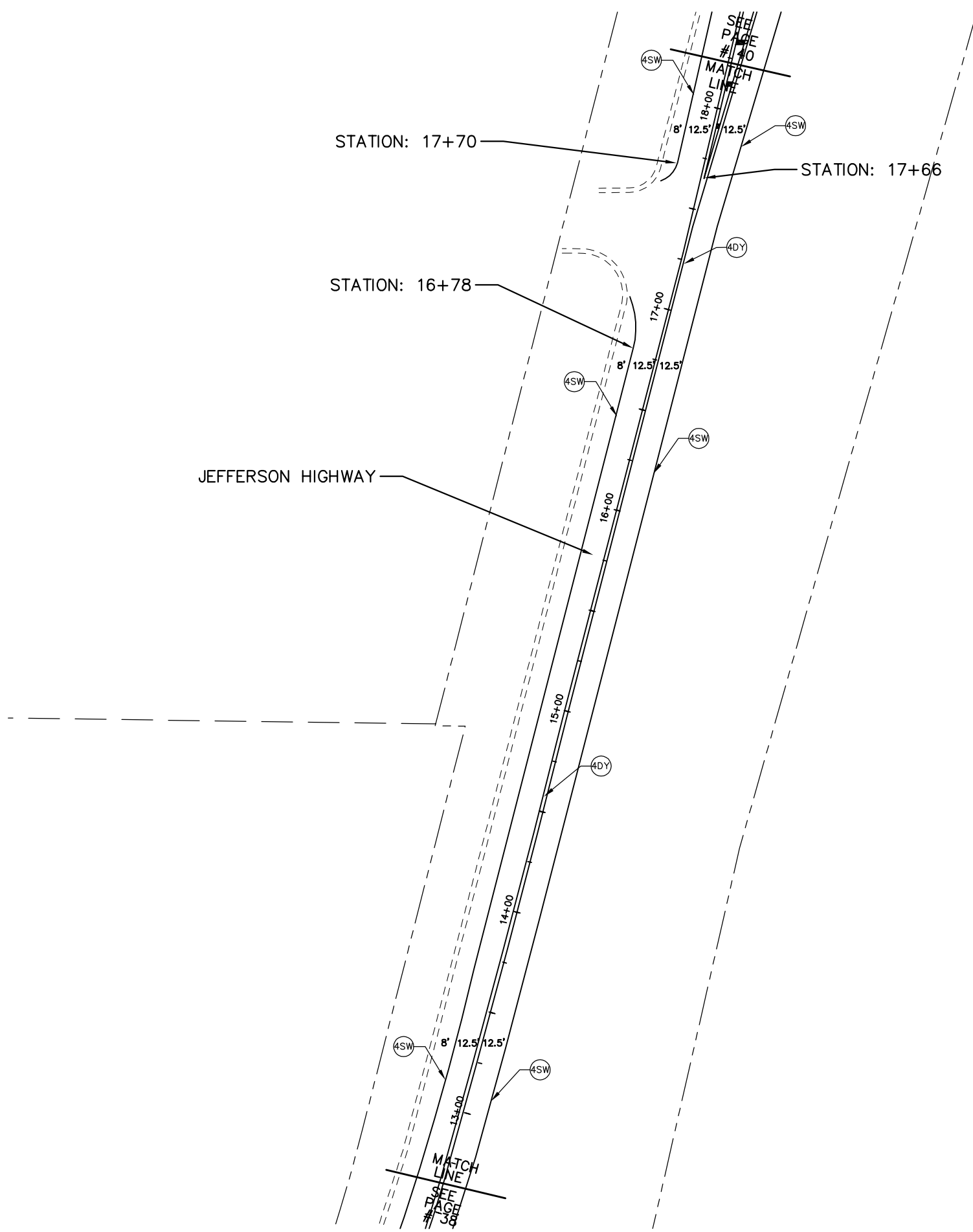
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

[Signature]
DATE: 03/28/16

REVISIONS

NO.	DATE	BY	REMARKS

CONTRACT # 16-06
SHEET 38 of 45



LEGEND

LEFT AND THROUGH ARROW, WHITE, EPOXY

RIGHT ARROW, WHITE EPOXY

LEFT ARROW, WHITE EPOXY

LINE STRIPE SYMBOL

4" DOUBLE SOLID LINE-EPOXY

4" SINGLE SOLID LINE-EPOXY

GENERAL NOTES:

1. ALL PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH THE MN MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

0 15 30 60

SYMBOLS & MATERIALS LEGEND

STRIPING KEY

CIRCLE-EPOXY

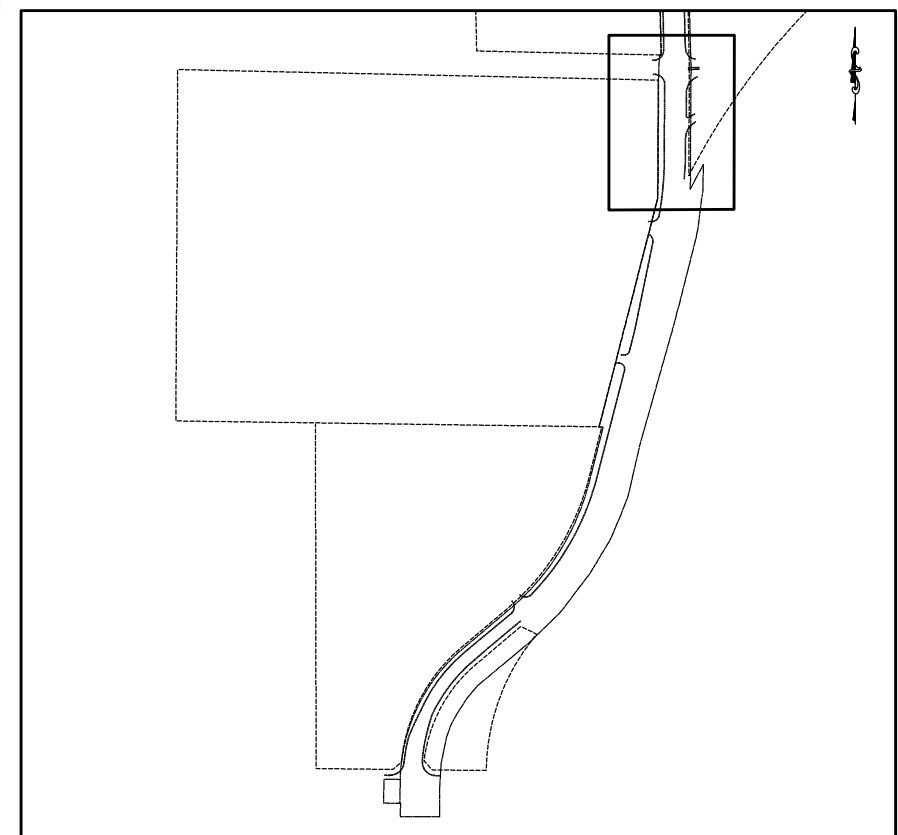
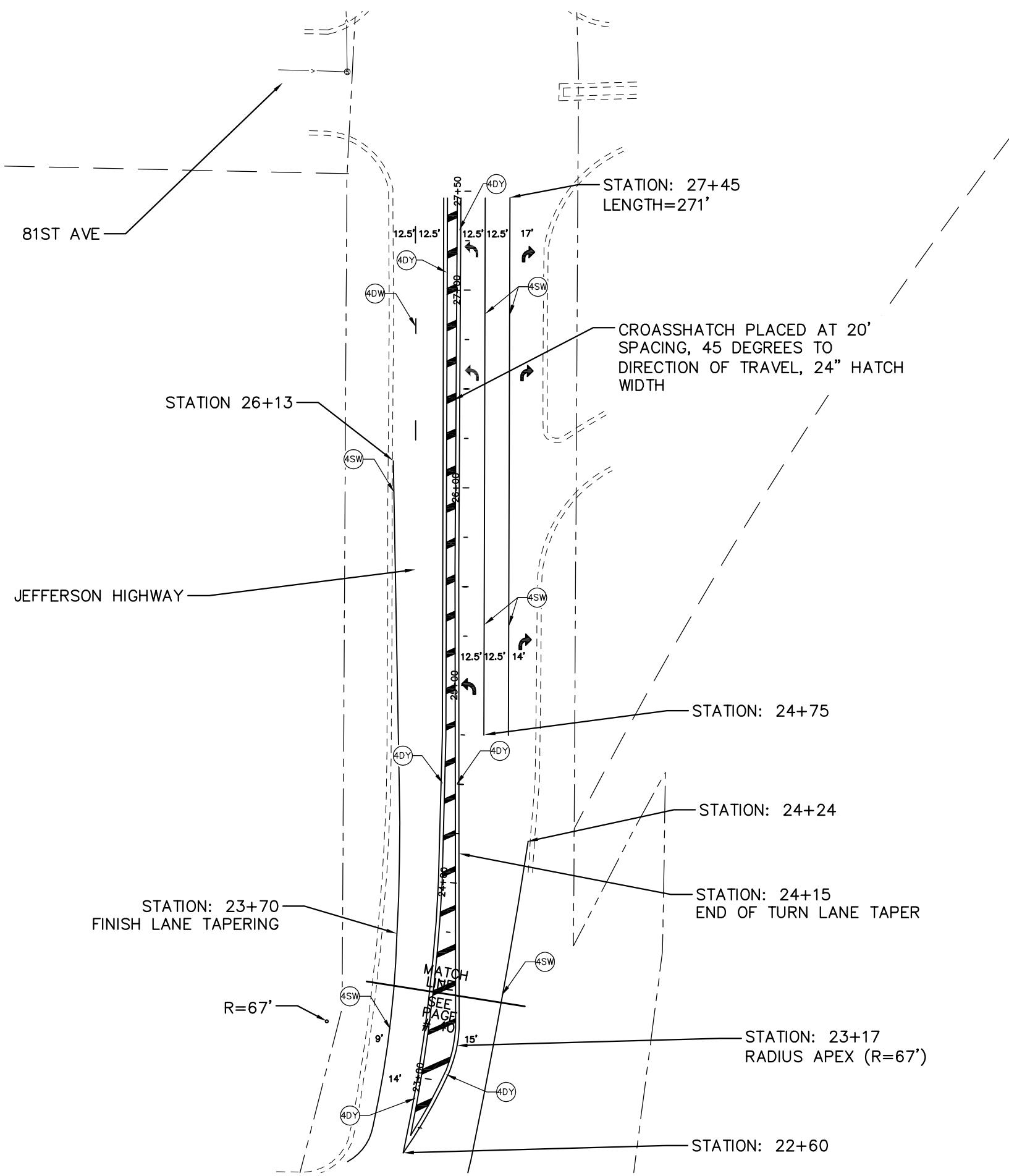
1ST DIGIT WIDTH
4", 8", 12"
OR 24"

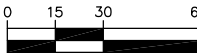

2ND DIGIT PATTERN
S-SOLID
B-BROKEN
D-DOUBLE

3RD DIGIT COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-EPOXY

JEFFERSON HIGHWAY PAVEMENT MARKINGS STA 12+50 - 18+25		City of Maple Grove 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350		2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM		I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. DATE: 03/28/16 CONTR.# ENG 16-06 SHEET 39 of 45	
REVISIONS		DATE BY		DATE		DRAWN: JRB CHECKED: JEF APPROVED: JGH	





LEGEND

LEFT AND THROUGH ARROW, WHITE, EPOXY

RIGHT ARROW, WHITE EPOXY

LEFT ARROW, WHITE EPOXY

LINE STRIPE SYMBOL

4" DOUBLE SOLID LINE-EPOXY

4" SINGLE SOLID LINE-EPOXY

GENERAL NOTES:

1. ALL PAVEMENT MARKINGS WILL BE PLACED IN ACCORDANCE WITH THE MN MANUAL UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

SYMBOLS & MATERIALS LEGEND

STRIPING KEY

CIRCLE-EPOXY

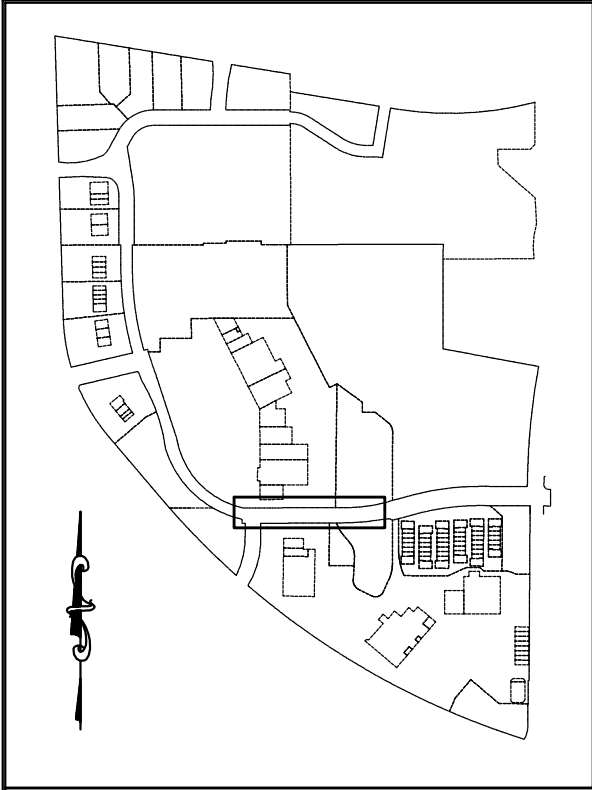
1ST DIGIT WIDTH
4", 8", 12" OR 24"

2ND DIGIT PATTERN
S-SOLID
B-BROKEN
D-DOUBLE/DASHED

3RD DIGIT COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: (4SW) = 4" SOLID LINE WHITE-EPOXY

JEFFERSON HIGHWAY PAVEMENT MARKINGS STA 23+50 - 27+50		REMARKS
NO	DATE BY	REVISIONS
City of Maple Grove 12800 ARBOR LAKES PARKWAY MAPLE GROVE, MN 55311 PHONE: (763) 494-6350		
2016 MAPLE GROVE STREET RECONSTRUCTION PROGRAM		
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		DATE: 03/28/16
DRAWN: JRB CHECKED: JEF APPROVED: JGH		DATE: 03/28/16
CONTR.# ENG 16-06		SHEET 41 of 45



- GENERAL NOTES:
- 1. 1.5" MILL AND OVERLAY ENTIRE WIDTH OF EXISTING BITUMINOUS ROADWAY.
 - 2. CONTRACTOR SHALL ESTABLISH TRAFFIC CONTROL IN ACCORDANCE WITH MNDOT FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

LEGEND

1.5" MILL & OVERLAY BITUMINOUS PAVEMENT

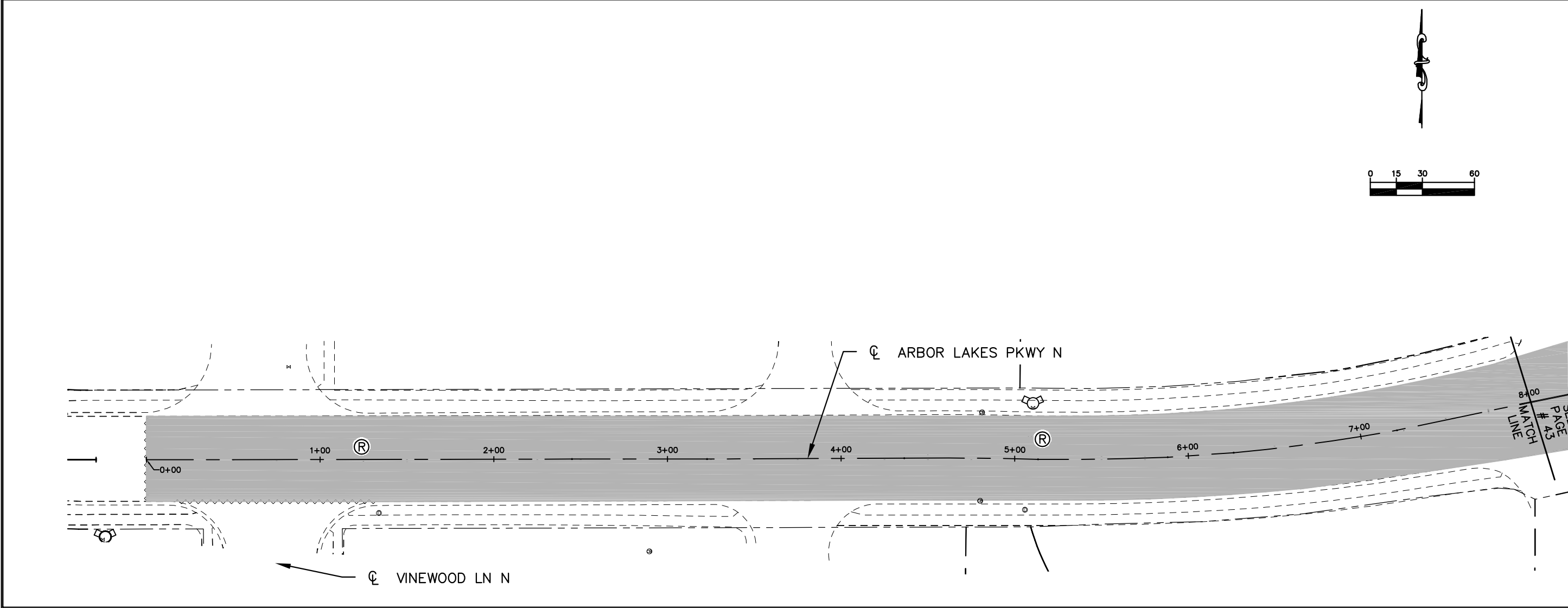
=====

EXISTING CURB & GUTTER

RIGHT OF WAY

Ⓡ

REPAIR / REPLACE GATE VALVE BOX



NO.	DATE	BY	REMARKS

ARBOR LAKES PKWY
0+00 – 8+00
CONSTRUCTION PLAN

City of
Maple Grove

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
MILL AND OVERLAY

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 02/29/16

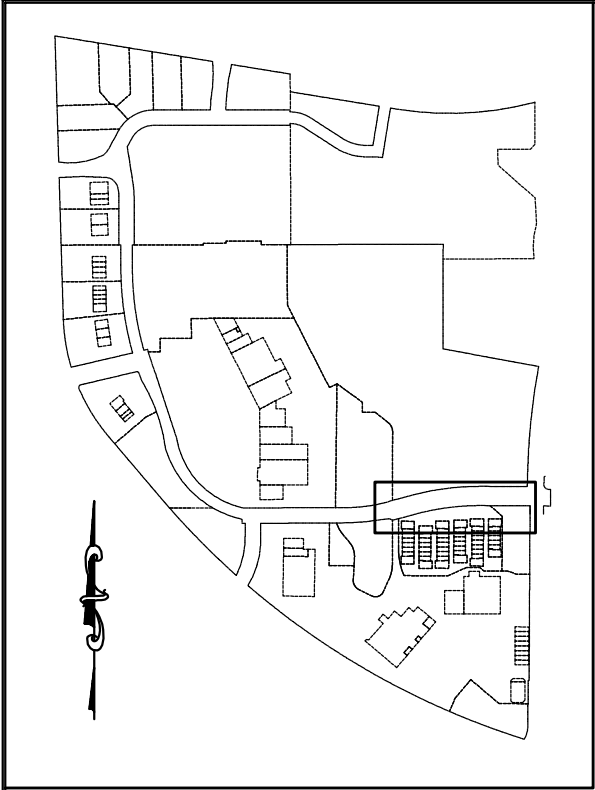
CONTR.#ENG 16-06

SHEET 42 of 45

DATE: 02/29/16

CONTR.#ENG 16-06

SHEET 42 of 45



- GENERAL NOTES:
- 1. 1.5" MILL AND OVERLAY ENTIRE WIDTH OF EXISTING BITUMINOUS ROADWAY.
 - 2. CONTRACTOR SHALL ESTABLISH TRAFFIC CONTROL IN ACCORDANCE WITH MNDOT FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

LEGEND

1.5" MILL & OVERLAY BITUMINOUS PAVEMENT

=====

EXISTING CURB & GUTTER

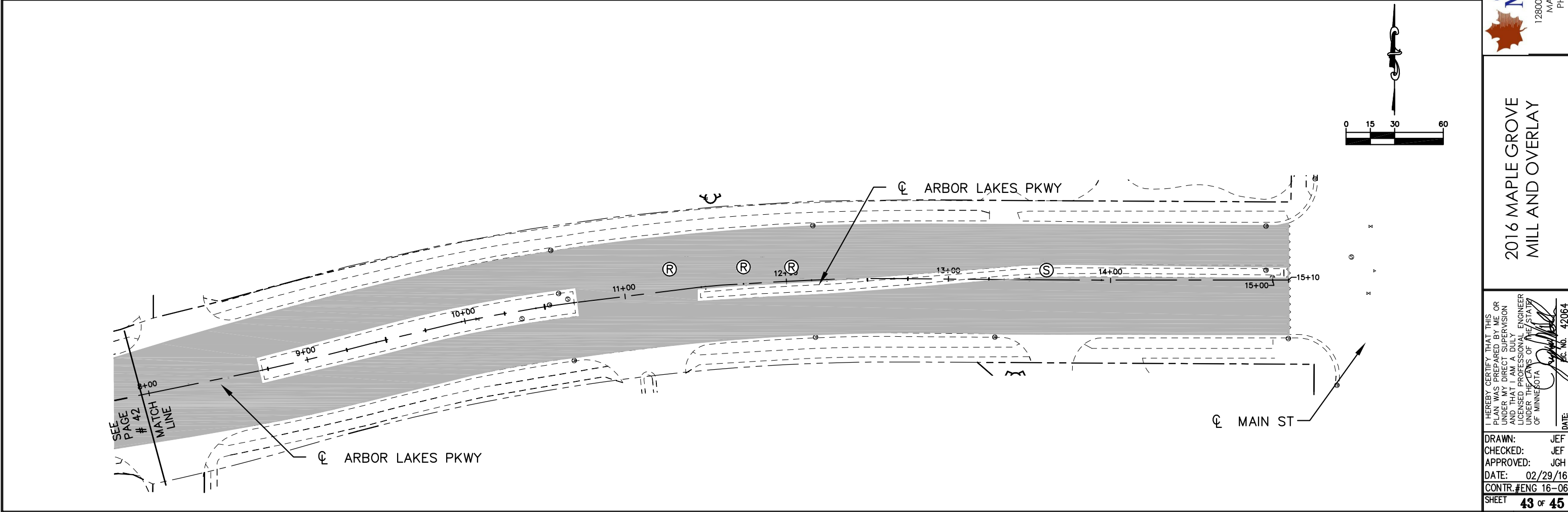
RIGHT OF WAY

Ⓡ

REPAIR / REPLACE GATE VALVE BOX

Ⓢ

SALVAGE & INSTALL CASTING ASSEMBLY



NO.	DATE	BY	REMARKS

ARBOR LAKES PKWY
8+00 – 15+40
CONSTRUCTION PLAN

City of

Maple Grove

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

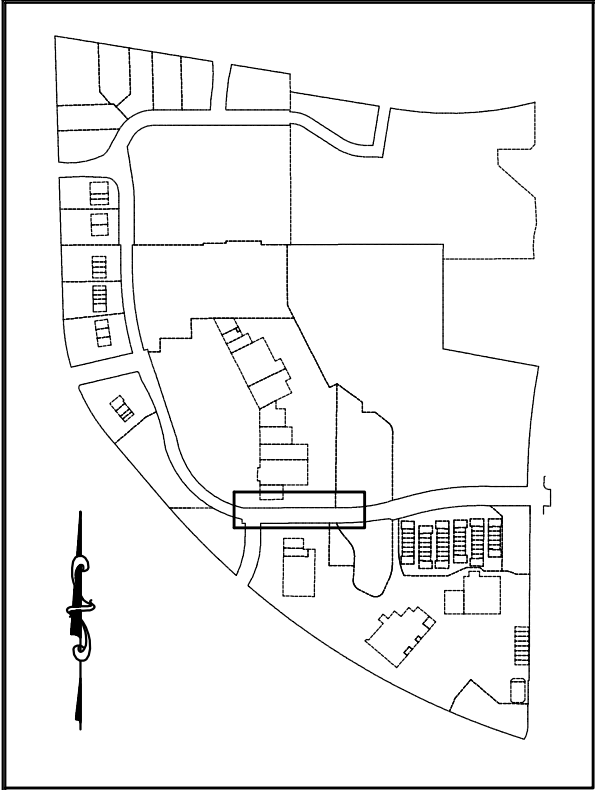
2016 MAPLE GROVE
MILL AND OVERLAY

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 02/29/16

CONTR.# ENG 16-06

SHEET 43 of 45



SYMBOLS & MATERIALS LEGEND

STRIPING KEY

CIRCLE-EPOXY

1ST DIGIT
WIDTH
4", 8", 12"
OR 24"

2ND DIGIT
PATTERN
S-SOLID
B-BROKEN
D-DOTTED/DOUBLE

3RD DIGIT
COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: (4SW) = 4" SOLID LINE WHITE-EPOXY

LEGEND

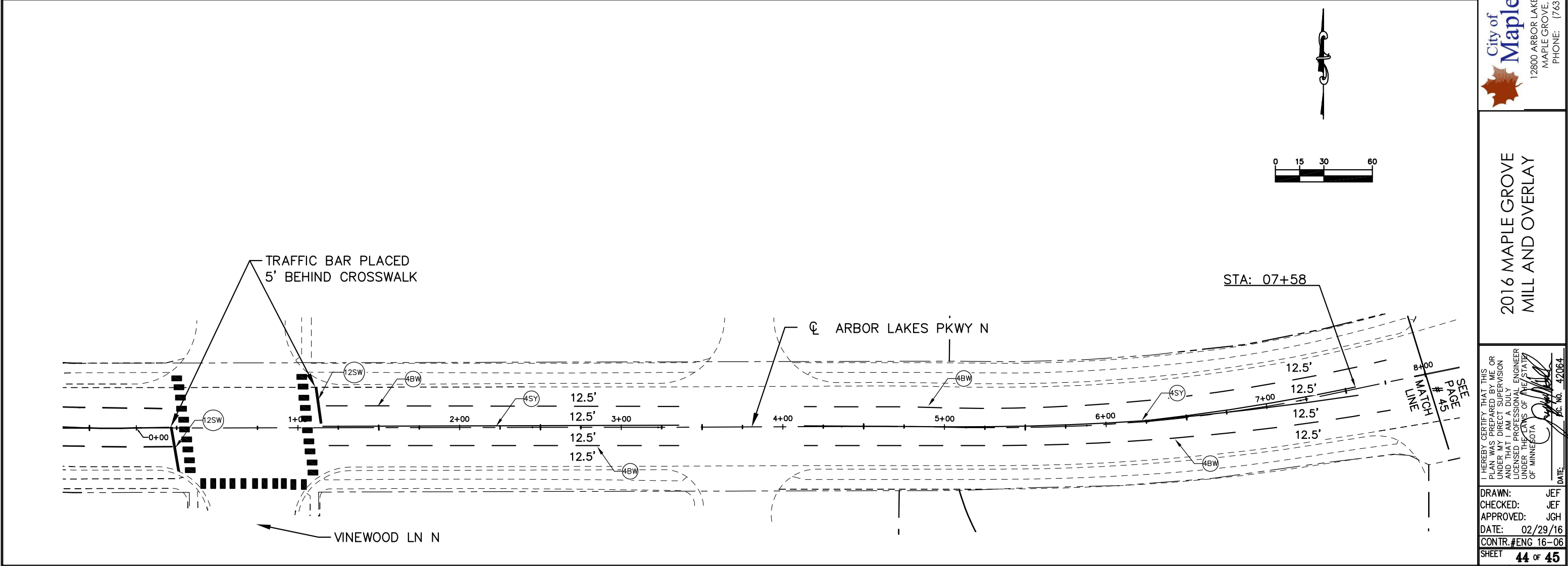
↑
THROUGH ARROW, WHITE, EPOXY

↘
RIGHT ARROW, WHITE EPOXY

↙
LEFT ARROW, WHITE EPOXY

(4BY)
LINE STRIPE SYMBOL

■
3'X6' CROSSWALK SYMBOL



NO.	DATE	BY	REMARKS

ARBOR LAKES PKWY
0+00 – 8+00
STRIPING PLAN

City of Maple Grove
12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

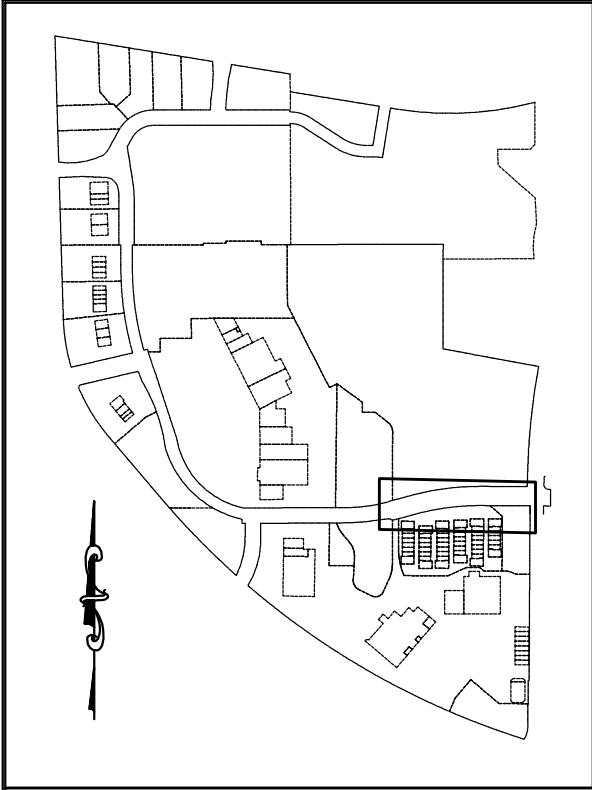
2016 MAPLE GROVE
MILL AND OVERLAY

HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 02/29/16
CONTR.# ENG 16-06
SHEET 44 of 45

DRAWN: JEF
CHECKED: JEF
APPROVED: JGH

DATE: 02/29/16
CONTR.# ENG 16-06
SHEET 44 of 45



SYMBOLS & MATERIALS LEGEND

STRIPING KEY

CIRCLE-EPOXY

1ST DIGIT WIDTH
4", 8", 12"
OR 24"

2ND DIGIT PATTERN
S-SOLID
B-BROKEN
D-DOTTED/DOUBLE

3RD DIGIT COLOR
W-WHITE
Y-YELLOW
B-BLACK

EXAMPLE: (4SW) = 4" SOLID LINE WHITE-EPOXY

LEGEND

↑
THROUGH ARROW, WHITE, EPOXY

↗
RIGHT ARROW, WHITE EPOXY

↖
LEFT ARROW, WHITE EPOXY

(4BY)
LINE STRIPE SYMBOL

NO.	DATE	BY	REMARKS

ARBOR LAKES PKWY
8+00 – 15+60
STRIPING PLAN

City of
Maple Grove

12800 ARBOR LAKES PARKWAY
MAPLE GROVE, MN 55311
PHONE: (763) 494-6350

2016 MAPLE GROVE
MILL AND OVERLAY

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PLAN WAS PREPARED BY ME OR
UNDER MY DIRECT SUPERVISION
AND THAT I AM A DULY
LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE
OF MINNESOTA

DATE: 02/29/16

DRAWN: JEF
CHECKED: JEF
APPROVED: JGH

CONTR.# ENG 16-06
SHEET 45 OF 45

